SECTIONAL FOUNDATIONS INC.

SECTIONAL FOUNDATIONS, INC.

P. O. BOX 3003

SCRANTON, PA 18505

(717) 343-8985

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

TABLE OF CONTENTS

CONCRETE PRODUCTS AND FOUNDATIONS

Flasher Pole 1
Crossing Gate 2
Cantilever Gate and Bridge 3
Cantilever Signal and Bridge 4–5
Instrument Case Piers 6–7
Colorlight Dwarf Signal 8
Relay House Pier 9
Price List 10

FIELD POURED FOUNDATIONS

Concrete Foundation Assembly 14
Concrete Reinforcing 15
Bolt Spacing Specs 16
Material Description 17
Price List 18

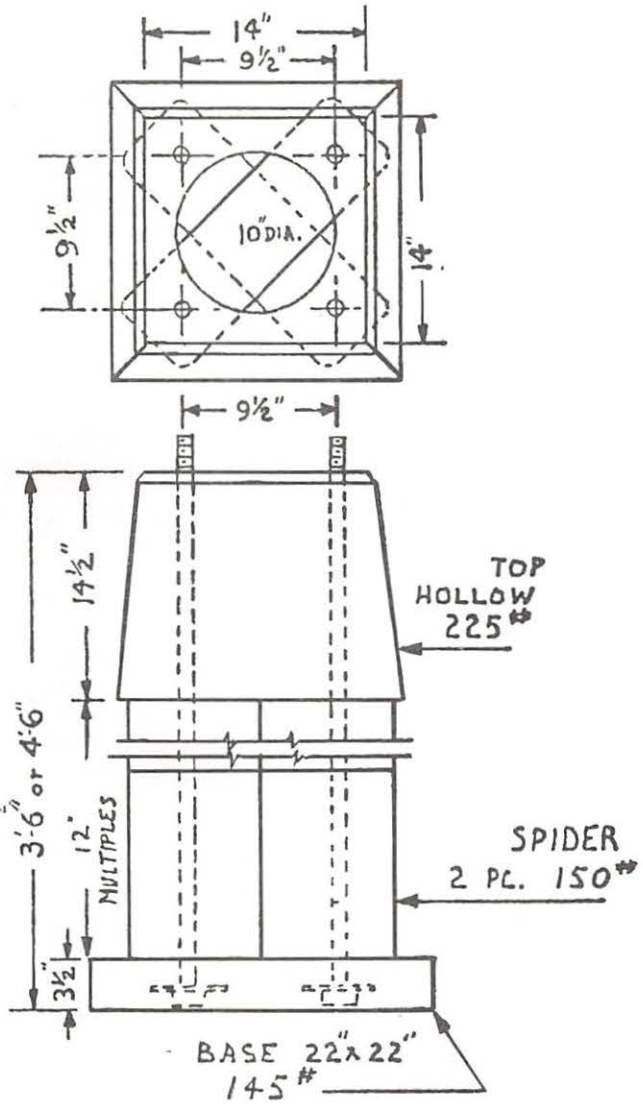
STEEL FOUNDATIONS

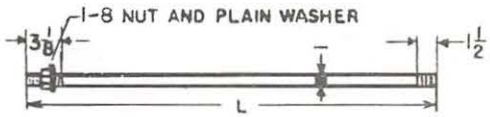
Flasher Pole 19
Crossing Gate 20
Instrument Case 21
Telephone House 22
Instrument House 23
Signal Colorlight 24
Price List 25

Sectional Foundations, Inc.
P.O. Box 3003
Scranton, Pa. 18505

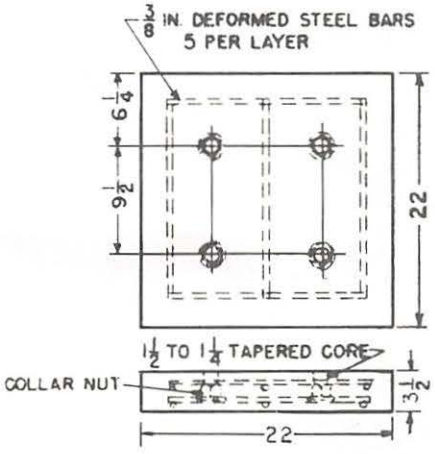
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SF-1
FLASHER POLE





BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 2¼ INCHES



BASE
WEIGHT 145 LBS.

NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

PRECAST CONCRETE FOUNDATION FOR 4 INCH MAST
DETAILS

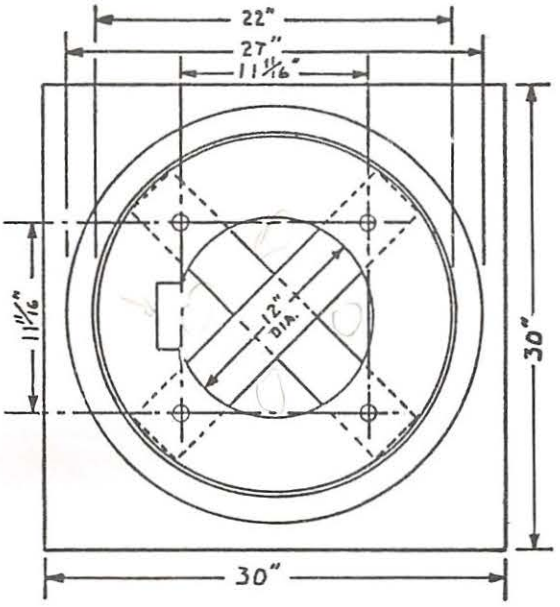
AAR SIGNAL 694B

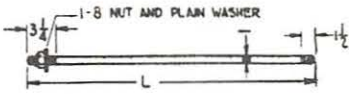
					M-1961	OCT. 1961	M-1939	MAR. 1939

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

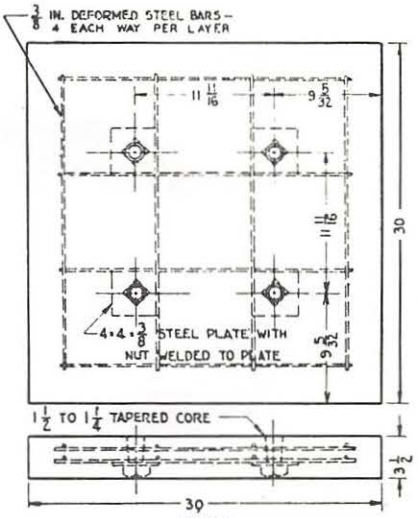
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SF-2
CROSSING GATE

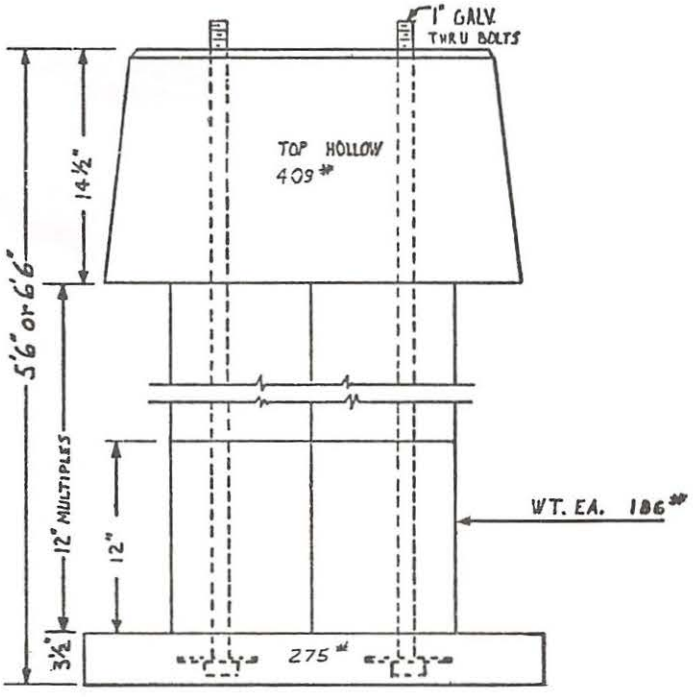




BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 3¼ INCHES


3/8 IN. DEFORMED STEEL BARS – 4 EACH WAY PER LAYER
11 15/16
9 5/32
11 15/16
30
4-4 x 3/8 STEEL PLATE WITH NUT WELDED TO PLATE
9 5/32
1 1/2 TO 1 1/4 TAPERED CORE
3 1/2
30

BASE
WEIGHT 275 LBS.



NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

PRECAST CONCRETE FOUNDATION FOR 5 AND 6 INCH MASTS
DETAILS

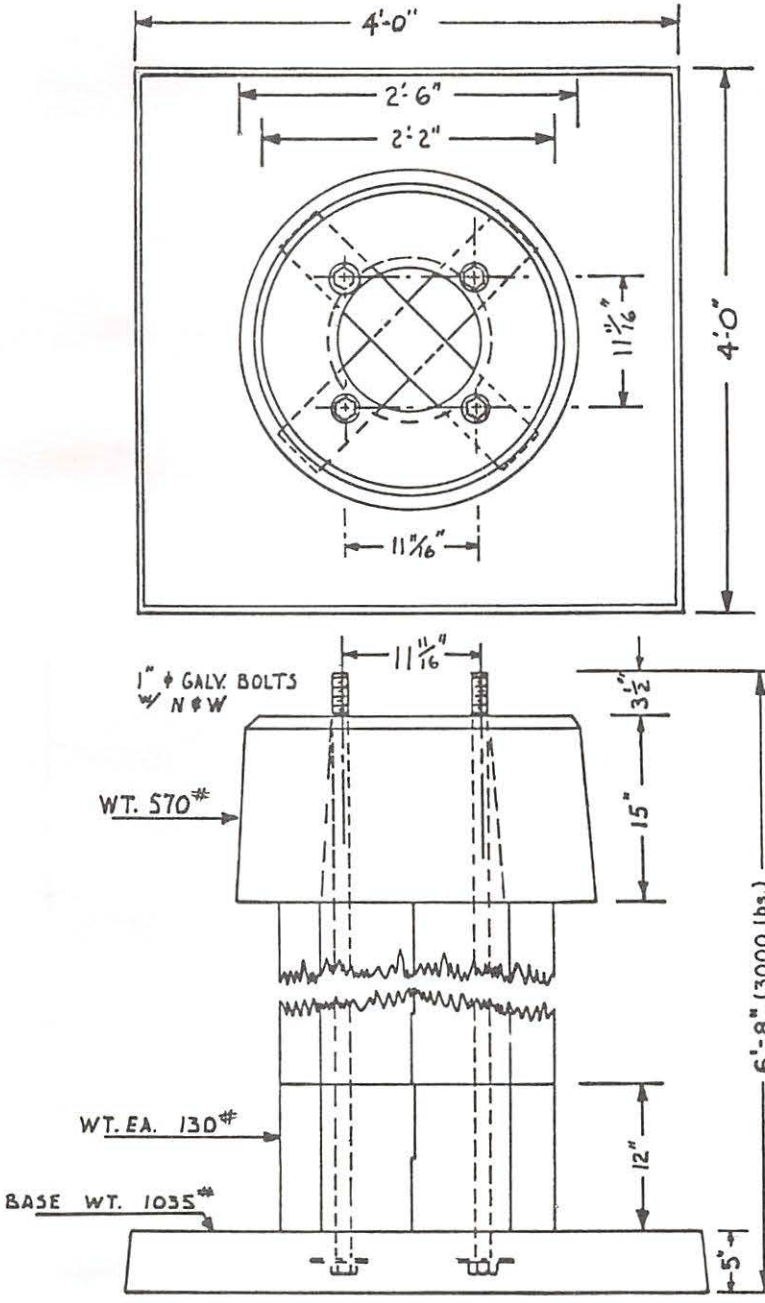
AAR SIG. SEC. 1560A

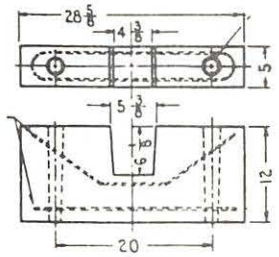
							M-1958	SEP. 1958

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

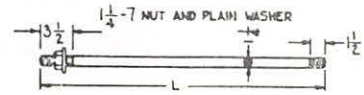
Sectional Foundations, Inc.
P. O. BOX 1438 - SCRANTON, PA 18503 - (717) 343-8985

SF-9-2
CANTILEVER GATE AND BRIDGE





SPIDER
WEIGHT 130 LBS
TWO REQUIRED FOR EACH 12 INCH
INCREMENT OF HEIGHT



BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 3½ INCHES

NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

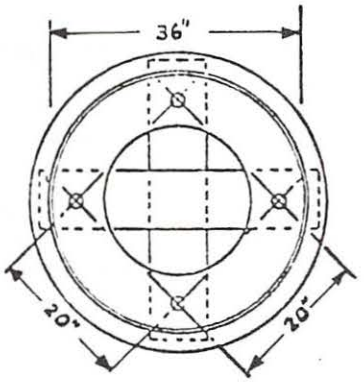
PRECAST CONCRETE FOUNDATION FOR 8 INCH MAST
DETAILS

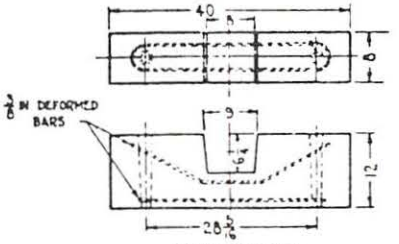
									AAR SIG. SEC.
							M-1958	SEP. 1958	1561A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

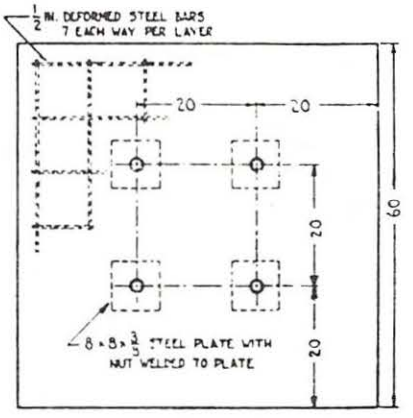
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

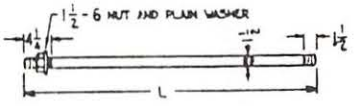
SF-10
CANTILEVER SIGNAL AND BRIDGE



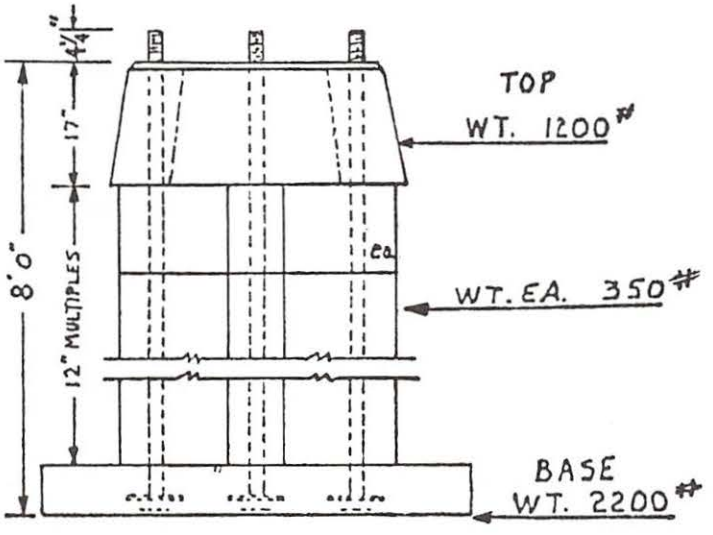


15793 SPIDER
WEIGHT 350 LBS.
TWO REQUIRED FOR EACH 12 INCH
INCREMENT OF HEIGHT





15791 BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 4¼ INCHES



NOTE:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.

PRECAST CONCRETE FOUNDATION FOR 10 AND 12 INCH MASTS
DETAILS

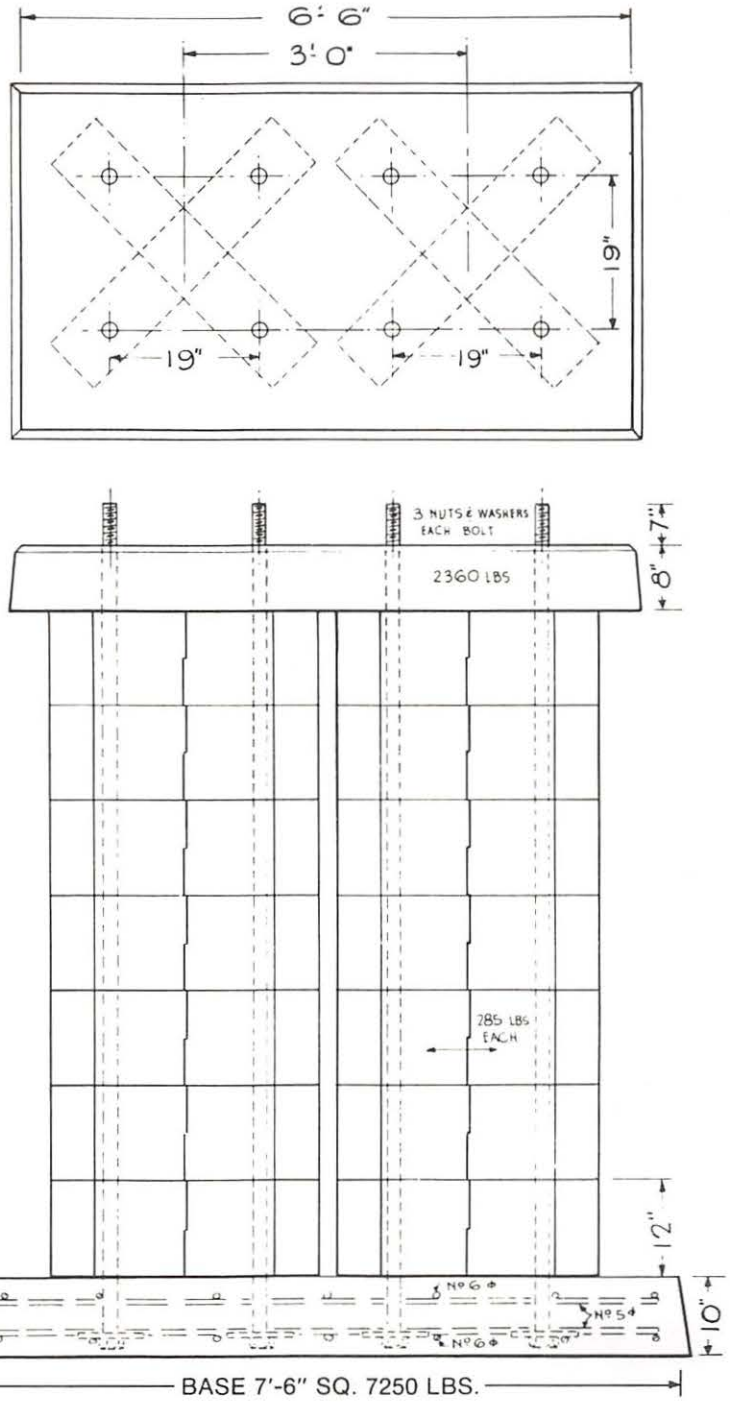
							M-1958	SEP. 1958

AAR SIG. SEC. 1579A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SF-10-3W-S-19
CANTILEVER SIGNAL *



ARMS

32 to 34 Ft.	7'-6"	16,730 Lbs. w/ 1¼" ø Bolts	S-19-33
35 to 37 Ft.	8'-6"	17,800 Lbs. w/ 1¼" ø Bolts	S-19-36
38 to 40 Ft.	9'-6"	19,230 Lbs. w/ 1½" ø Bolts	S-19-40

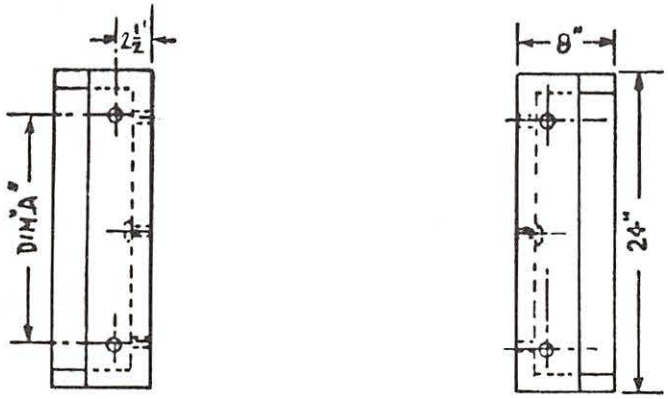
TYPICAL ELEVATION FOR 32 FT. TO 40 FT. CANTILEVERS

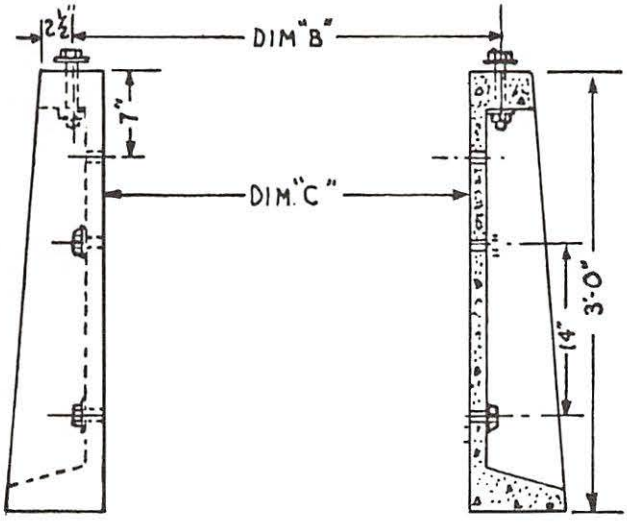
BASE AVAILABLE IN 4 PCS. I.E., 3'-9" × 7'-6" × 7" THICK 2550 LBS. EA.

*Can be ordered in 12¾" x 12¾" center to center bolt spacing (SF-10-S-12) for WABCO only.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SF-5
INSTRUMENT CASE PIERS





INSTRUMENT CASE FOUNDATIONS ORDER REF.

Foundation	"A"	"B"	Strut "C"	Acc.	Wt.
SF-5A	1'-3"			No	473
A2	1'-6½"			No	473
B	1'-6½"	2'-1½"			
B	1'-6½"	2'-1½"	1'-8½"	T	548
C	1'-6½"	2'-10"	2'-5"	C	566
D	1'-6½"	3'-5¾"	3'-0¾"	C	582
E	1'-6½"	3'-8¼"	3'-3¼"	C	588
F	1'-6½"	4'-2"	3'-9"	T	600
G	1'-6½"	4'-4"	3'-11"	C	605
H	1'-6½"	5'-1¼"	4'-8¼"	C	623
I	1'-6½"	5'-4"	4'-11"	C	628
J	1'-6½"	6'-0"	5'-7"	T	645
K	1'-6½"	6'-11¼"	6'-6¼"	C	692
L	1'-6½"	7'-6"	7'-1"	T	713
M	1'-6½"	9'-10¼"	9'-5¼"	P	943
N	1'-6½"	3'-4¾"	2'-11¾"	T	580
O	1'-6½"	6'-6⅜"	6'-1⅜"	T	661
P	1'-6½"	2'-8"	2'-3"	C	581
Accessory	T	T-Head			
	P	Paneled			
	C	Cored			

1 Bag—Bolts, Nuts, and Washers attached to each Strut. Each Bag Contains:
- (4) ¾" × 4½" Galv. Bolts w/Nut & Washer
- (4) ¾" ×-2½" Galv. Studs w/Washer only
- (4) ¾" × 7" or (4) ¾" × 9" galv. bolts substituted for the 4½" @ $1.90 Extra for lot of (4)

NOTES:
1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, WASHERS, AND INSERTS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS. COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAX. SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQ. INCH AFTER 28 DAYS SHALL BE USED.

PRECAST CONCRETE PIER FOR INSTRUMENT HOUSINGS
DETAILS AND ASSEMBLY

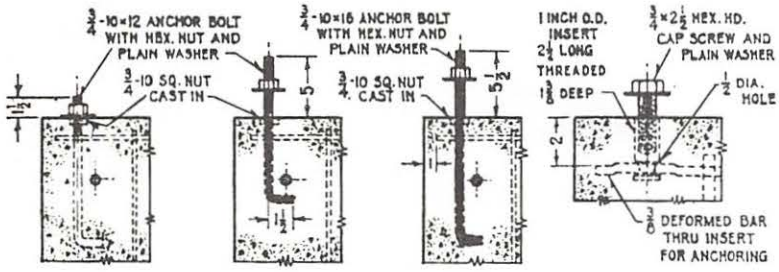
AAR SIG. SEC. 1581A

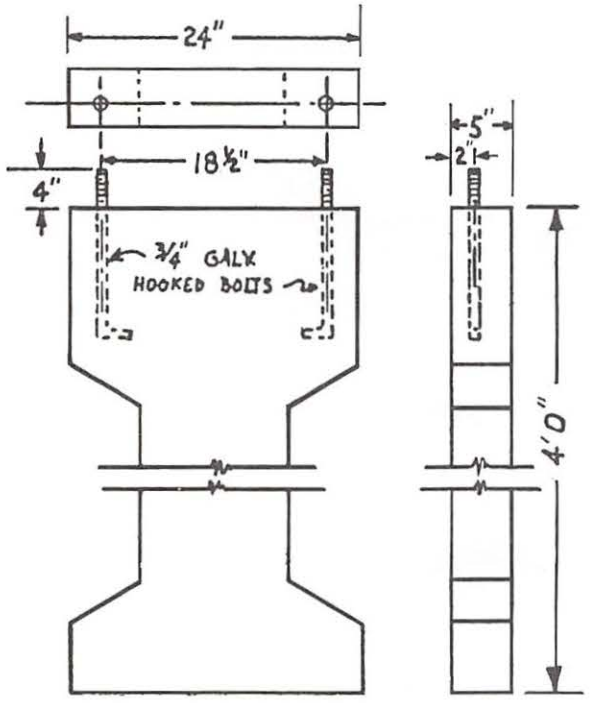
							M-1959	OCT. 1959

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SF-392
INSTRUMENT CASE PIERS


¾-10×12 ANCHOR BOLT WITH HEX. NUT AND PLAIN WASHER
¾-10 SQ. NUT CAST IN
¾-10×16 ANCHOR BOLT WITH HEX. NUT AND PLAIN WASHER
¾-10 SQ. NUT CAST IN
1 INCH O.D. INSERT 2½ LONG THREADED 1⅜ DEEP
¾×2½ HEX. HD. CAP SCREW AND PLAIN WASHER
½ DIA. HOLE
DEFORMED BAR THRU INSERT FOR ANCHORING



NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, WASHERS, AND INSERTS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS. COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAX. SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 POUNDS PER SQ. INCH AFTER 28 DAYS SHALL BE USED.

PRECAST CONCRETE PIER FOR INSTRUMENT HOUSINGS
DETAILS AND ASSEMBLY

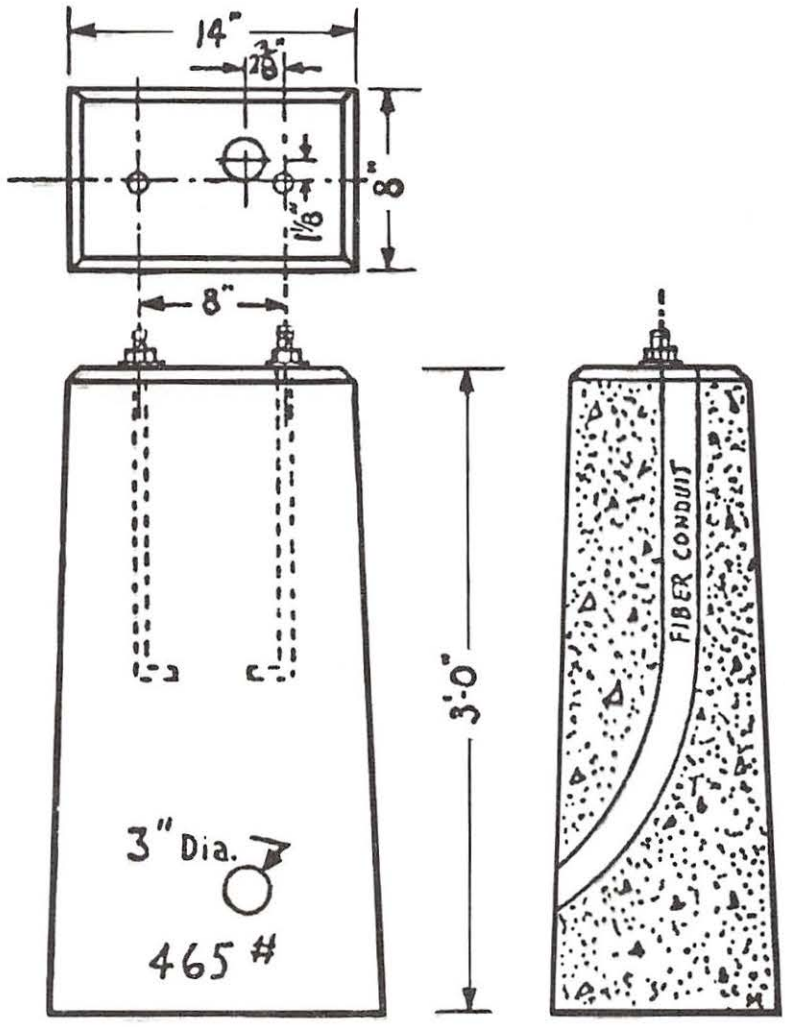
AAR SIG. SEC. 1581A

							M-1959	OCT. 1959

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

COLORLIGHT DWARF SIGNAL FOUNDATION **SF-12**



PRECAST CONCRETE DWARF SIGNAL
DETAILS AND ASSEMBLY

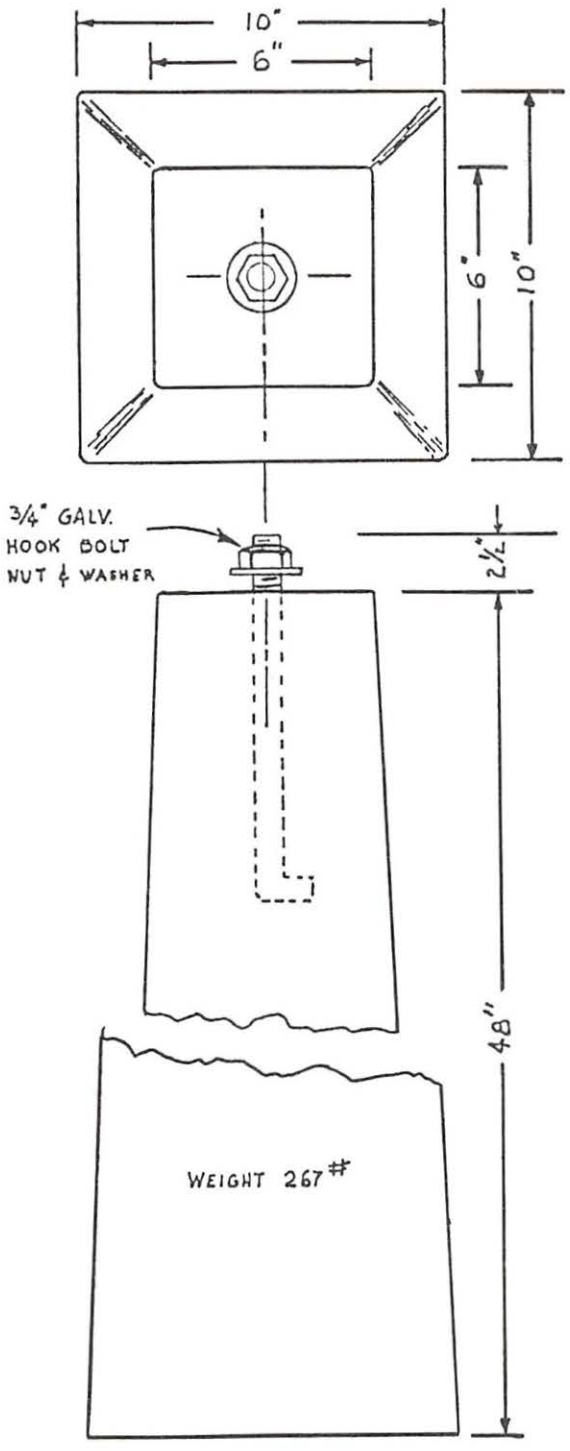
							M-1959	OCT. 1959

AAR SIG. SEC. 1581A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
P O BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

RELAY HOUSE PIER



PRECAST RELAY HOUSE PIER

DETAILS AND ASSEMBLY

							M-1959	OCT. 1959

AAR SIG. SEC. 1581A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads, Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
P. O. BOX · SCRANTON, PA 18503 · (717) 343-8985

CONCRETE PRODUCTS AND FOUNDATIONS PRICE LIST

Prices for component parts not listed or for special designed items will be quoted on request.

FLASHER FOUNDATIONS

Fdn.	Height	Total Weight	Bolt Length	Price
SF-1	2'6"	544#	32¼"	
9½" × 9½"	3'6"	702	44¼"	
	4'6"	806	56¼"	
	5'6"	910	68¼"	
SF-1X	4'7½"	860	58¼"	

GATE FOUNDATIONS

SF-2	3'6"	1096	44¼"	
11-11/16" Sq.	4'6"	1293	56¼"	
	5'6"	1490	68¼"	
	6'6"	1686	80¼"	
	7'6"	1882	92¼"	
	8'6"	2078	104¼"	
SF-2X	3'6½"	996	44¼"	
11-11/16" Sq.	5'7½"	1368	69¼"	

CANTILEVER, GATE AND BRIDGE FOUNDATIONS

For 24 Ft. Rotatable Alum. Cantilever Signal

SF-9-2	6'8"	3070	1" × 82½"
11-11/16" Sq.	7'8"	3330	1" × 94½"
SF-9-2X	6'8"	3115	1¼" × 82½"
11-11/16" Sq.	7'8"	3375	1¼" × 94½"
w/1¼" ø Bolts			

Bracket Mast Fdn. Assembled

SF-10	7'0"	6590	1½" × 88"
20" × 20"	8'0"	7182	1½" × 100"
SF-10-2	8'0"	9400#	1¼" × 100½"
11-11/16" Sq.			

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
P. O. BOX SCRANTON, PA 18503 · (717) 343-8985

Fdn.	Height	Total Weight	Bolt Length	Price
Safetran Walkout Cantilever Foundations				
SF-10W	12' & 14' Arm			
19" × 19"	7'0"	6500	1½" × 90¼"	
	16' Arm			
	8'0"	7070	1½" × 102¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling Available with 1720 lb. Base Special Order as SF-10WM				
SF-10-3W	18' & 20' Arm			
19" × 19"	7'1"	8580	1½" × 91¼"	
	22' to 30' Arm			
	8'1"	9165	1½" × 103¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3WS	Same as SF-10-3W except has four part sectional base, each piece 1650 lbs. for handling with light equipment.			
19" × 19"	7'1"	10,860	1½" × 91¼"	
	8'1"	11,240	1½" × 103¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
WABCO Walkout Cantilever Foundations				
SF-10-1	8' to 16' Arm			
	7'1"	8065	1" × 91¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-1Q	17' to 22' Arm			
	7'1"	8145	1¼" × 91¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3W	23' to 28' Arm			
	7'1"	8580	1½" × 91¼"	
	29' to 31' Arm			
	8'1"	9165	1½" × 103¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3WS	Same as SF-10-3W except it has four part sectional base, each piece 1650 lbs. for handling with light equipment.			
	7'1"	10,860#	1½" × 91¼"	
	8'1"	11,240	1½" × 103¼"	
Price Includes 3 Nuts and Washers Each Bolt for Leveling				

BATTERY BOXES

Air Cell Battery Box—One Cell Box with metal cover and vent cover	80#
Junior Battery Box—20" × 24" I.D.	
Box with metal cover, slat bottoms & vent cover	366#
Box with metal cover, slat bottoms, 2 terminal boards, and frost cover	376#
Box as above, complete w/insulation 4 sides	390#
Box as above, complete w/insulation plus locking	395#

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
P O BOX · SCRANTON, PA 18503 · (717) 343-8985

Sectional Concrete Battery Boxes

Box with slat bottoms, frost cover, terminal boards, metal cover and accessories:

Box complete, including insulation on 4 sides:

	Wt.	Price	Wt.	Price
SF665	581#		598#	
SF666	890		913	
SF667	1471		1496	
SF668	1777		1857	

Notes:

Size SF667 consists of one each #SF665 and #SF666
Size SF668 consists of two #SF666's
Both complete with Accessories and 4" conduit connector

One Piece Concrete Battery Boxes—Comp. with metal cover, frost cover, term bds., slat bottoms & ½" Celotex ins. on 4 sides

10-Cell - 30" × 30" I.D. Wt. 885# Comp.
16-Cell - 36" × 36" I.D. Wt. 1100# Comp.
10-Cell Complete with 3" Diam. Pipe
16-Cell Complete with 3" Diam. Pipe

INSTRUMENT CASE FOUNDATIONS

Plan	Dim. "A"	Item	Shipping Weight	Price
SF-5	1'3"	2-Peds Only	472#	
SF-5A	1'6½"	2-Peds Only	472	

1 Bag—Bolts, Nuts, Washers, attached to each Strut
Each Bag Contains: (4) ¾" × 4½" Galv. Bolts w/Nut & Washer
(4) ¾" × 2½" Galv. Studs w/Washer only.

(4) ¾" × 7" or (4) ¾" × 9" galv. bolts substituted for the 4½" @ Extra for lot of (4)

MONOLITHIC—"M" SERIES FOUNDATIONS

Ref	Bolt Centers	Use	Height	Weight	Price
SF-1	9½" × 9½"	Cable Post FDns.	4'0"	965#	
SF-2	11-11/16" Sq.	Ground Signals 1" ø Bolts	6'0"	3450	
SF-11	6" × 8"		3'6"	675	
SF-12	8" c-c	Dwarf Sigs. N&N2	3'0"	460	
SF-13	8" × 8" - for Style H-5 cable ent. 3½" off center		3'6"	890	

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
P. O. BOX · SCRANTON, PA 18503 · (717) 343-8985

INSTRUMENT CASE PIERS

		Height	Weight	Price
SFCP-392	¾" Hook Bolts – 1½" Ext.	4' High	365#	
SFCP-392-A	¾" Inserts w/2, ¾" × 2½"	4' High	365	
	H.H.C.S. and Washers	5' High	430	
SFCP-392-B	¾" Hooks Bolts, 5" Ext.	4' High	365	
		5' High	430	
SFCP-392-C	¾" × 16" Hook Bolts 5½" Ext.	5' High	430	
	Galvanized Nuts & Washers Supplied with Hook Bolts			
SFCP-962	¾" Hook Bolt & Hardware	4' High	230	
Relay House Pier SFHP-607 6" sq. to 10" sq. ×		48" H	267	
Relay House Pier SFHP-761 7½" sq. to 18" sq. ×		36" H	615	
Relay House Pier SFHP-761 -4 7½" sq. to 18" sq. ×		48" H	1025	

Fence Posts

Cable Post	12'0"	630#
Cable Post	14'0"	735#
AAP	3/4" x 6" HDG Eyebolt, nut & 2 washers	
AAP	3/4" x 6" HDG Eyebolt, eye nut & 2 washers	
AAP	3/4" HDG eye nut only	
Junction Post	12'0"	375#
Junction Post	14'0"	435#

Walpar and Butterfly "T" Foundations

Cable Location Markers

Cribbing

Transformer Pads

Pull Boxes

CUSTOM ITEMS MADE TO ORDER

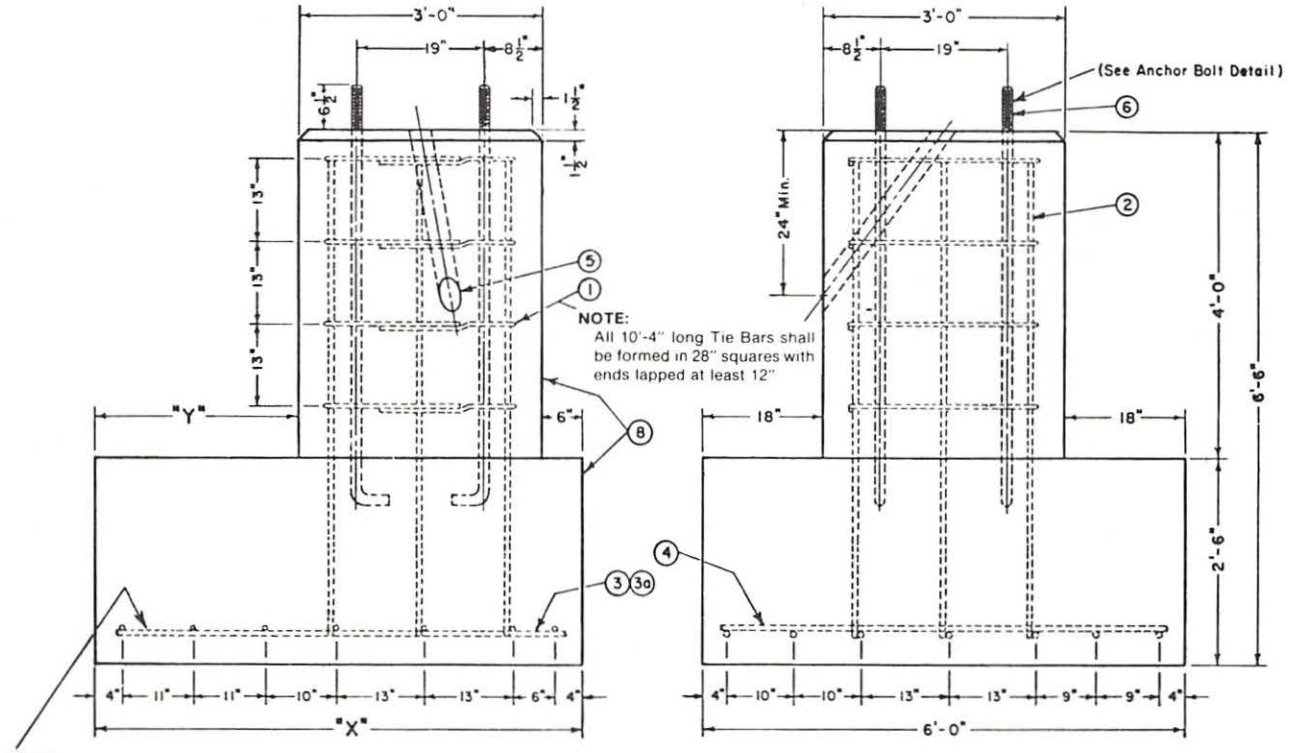
Palletizing charge .35 cwt. of product.

Terms: Net 30 days

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SECTIONAL CONCRETE FOUNDATION ASSEMBLY



NOTE:
When "X" is 8'-0" two additional No. 5 bars (item 4) spaced 12" apart must be added.

CONCRETE FOUNDATION ASSEMBLY ("X" = 6'-0"; "Y" = 2'-6") SF - X-6Y-26

For Aluminum Walkout Cantilever Highway Crossing Flashing Light Signal
with Cantilever Arm 24 feet long and less

CONCRETE FOUNDATION ASSEMBLY ("X" = 8'-0"; "Y" = 4'-6") SF X -8Y-46

For Aluminum Walkout Cantilever Highway Crossing Flashing Light Signal
with Cantilever Arm 25 feet to 32 feet long

GENERAL NOTES:

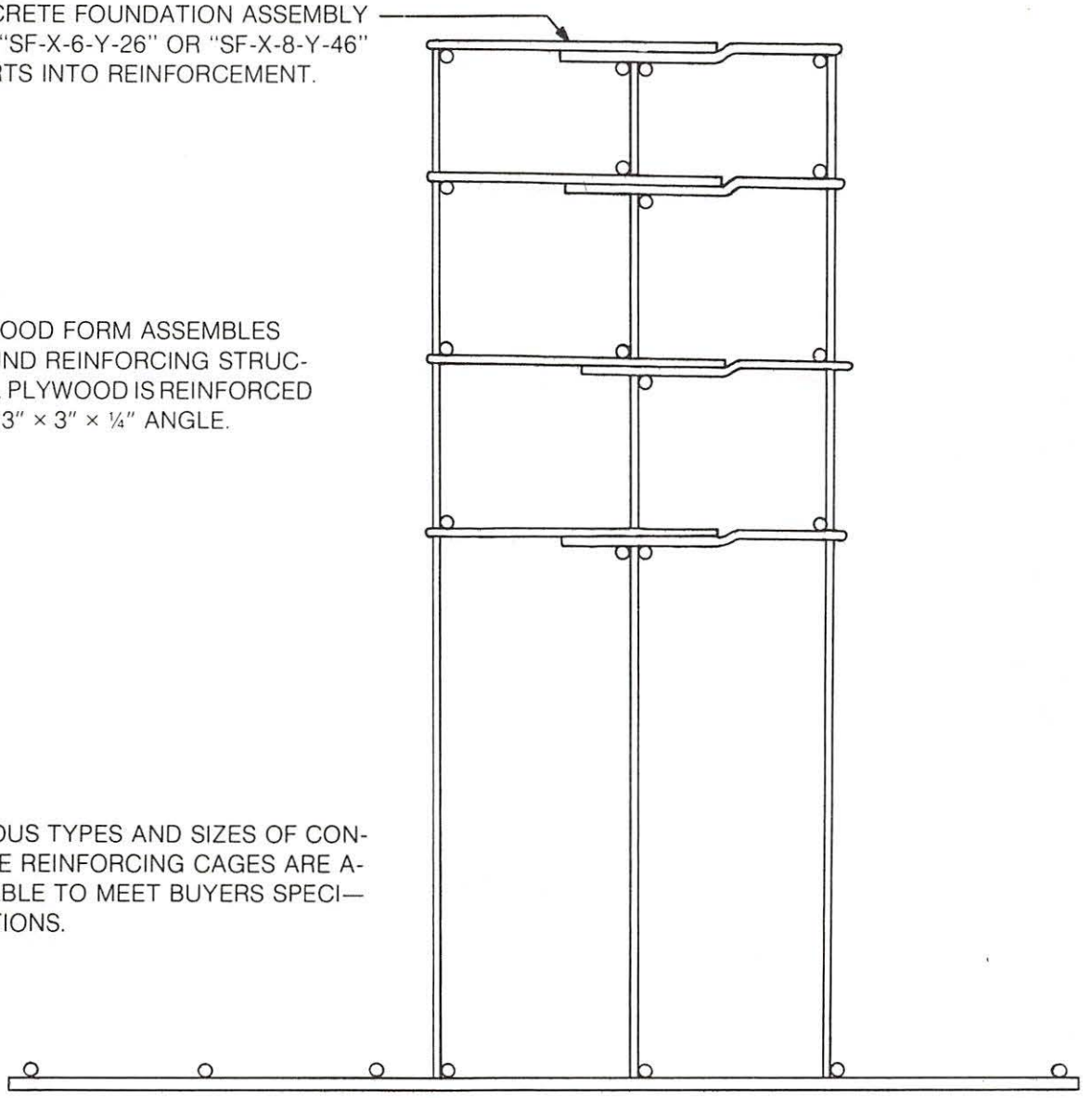
1. Concrete shall be in accordance with A.R.E.A. Chapter 8, Specification For Concrete Structures and Foundations. High Early Strength Type III cements shall be used. Type I, Normal cement may be substituted if Type III is not available. Cement shall conform to ASTM Spec. C-150 with a minimum cement content of 6 bags per cubic yard and a maximum water content of 5½ gallons per bag. The concrete shall attain a minimum compressive strength of 4000 psi at age of 28 days. At least 7 days is required before mounting signal.
2. Top of foundation to be no more than 4" above surface of ground for roadways with vertical curbs. At locations without curbing the top of foundation shall be level with surface of the traveled roadway and no more than 4" above surface of ground.
3. All tie bars to be at least 3" in concrete from outside edge.
   a. Spacing dimensions shown in drawing above for tie bars are approximate.
   b. Tie wires to be used to secure intersecting tie bars.
4. After setting signal, it is to be leveled by adjusting leveling nuts and the space between base plate and foundation top is to be grouted with a sand/cement mix.
   a. Anchor bolt and leveling nut threads are to be lubricated to prevent corrosion and clogging when grouted.
   b. Threads of anchor bolts shall not be embedded in concrete.
5. SF-X-8Y-46 is for an assembly of four 1½" dia. × 60" lg. galvanized bolts with nuts, washers and spacers for 19" bolt centers.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

CONCRETE FOUNDATION ASSEMBLY ITEM "SF-X-6-Y-26" OR "SF-X-8-Y-46" INSERTS INTO REINFORCEMENT.

PLYWOOD FORM ASSEMBLES AROUND REINFORCING STRUCTURE. PLYWOOD IS REINFORCED WITH 3" × 3" × ¼" ANGLE.

VARIOUS TYPES AND SIZES OF CONCRETE REINFORCING CAGES ARE AVAILABLE TO MEET BUYERS SPECIFICATIONS.



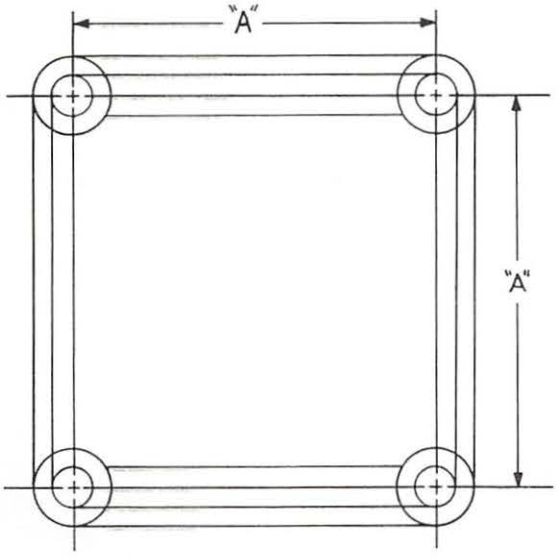
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

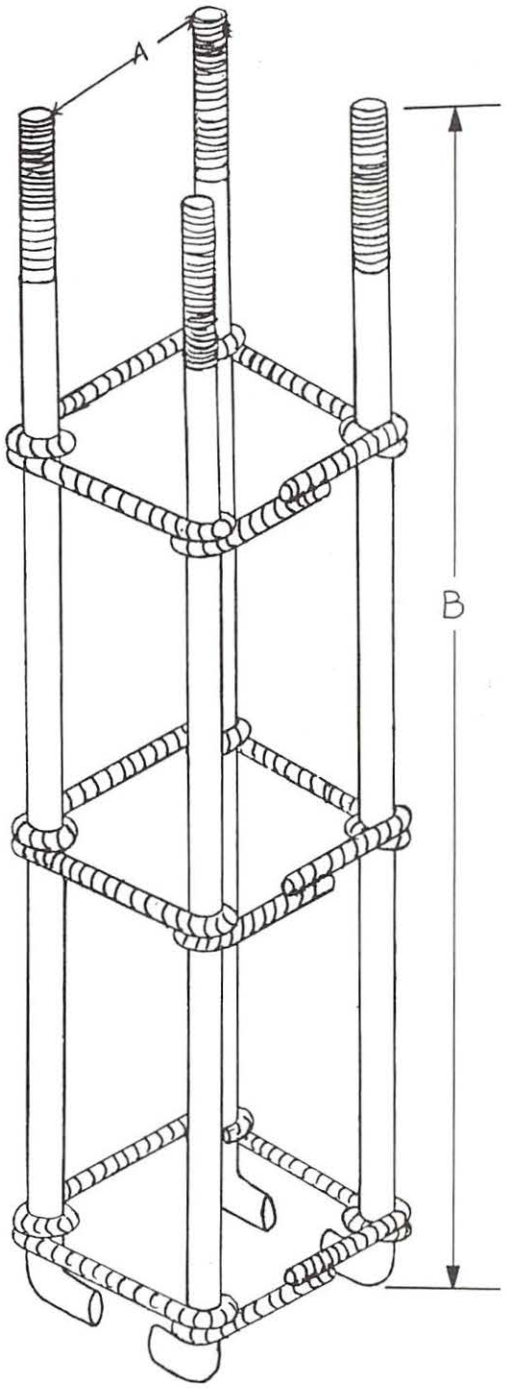
CONCRETE FOUNDATION ASSEMBLY

"A" Specify Bolt Spacing + Bolt Diameter in inches

Length "B"	Bolt Diameter
9½	¾
12	½
12	¾
12	1
16	¾
16	1
18	¾
24	1
36	1
36	1¼
42	1—1¼
42	1¼—1½
60	1—1¼—1½
60	1—1¼—1½
74	1¼—1½
87	1¼—1½
120	1½

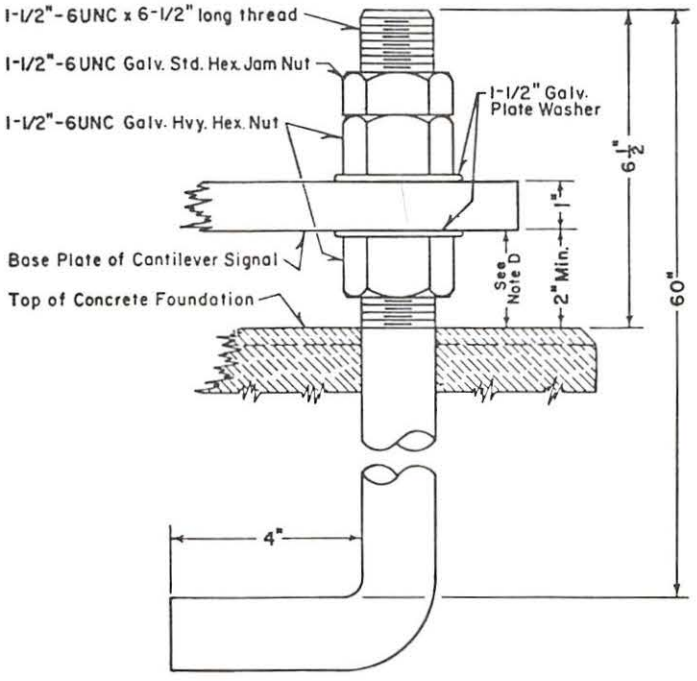
NOTE: ALL DIMENSIONS ARE IN INCHES.





Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SECTIONAL CONCRETE FOUNDATION ASSEMBLY



Cantilever Signal Leveling Method
and
Galvanized Anchor Bolt Detail

MATERIALS

Item	No. Req'd. for Foundation Assy. No.		Unit	Description
	X6Y26	X8Y46		
1	4	4	Ea.	No. 3, (⅜" Dia.) Tie Bar, 10'-4" long with 12" lap.
2	8	8	Ea.	No. 6, (¾" Dia.) Tie Bar, 70" long.
3	7		Ea.	No. 6, (¾" Dia.) Tie Bar, 64" long.
3a		7	Ea.	No. 6, (¾" Dia.) Tie Bar, 88" long.
4	7	9	Ea.	No. 5, ⅝" Dia.) Tie Bar, 66" long.
5	3	3	Ft.	Conduit, 3" Rigid PVC
6	4	4	Ea.	Bolt, Anchor (Refer to detail below and to Note 5)
7	1	1	Coil	Tie Wire, No. 16 AWG
8	5	6	Cu. Yd.	Concrete (Refer to General Note 1)

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

PRICE LIST
FIELD POURED FOUNDATIONS

(Prices Effective January 1, 1978)

Concrete Foundation Assembly

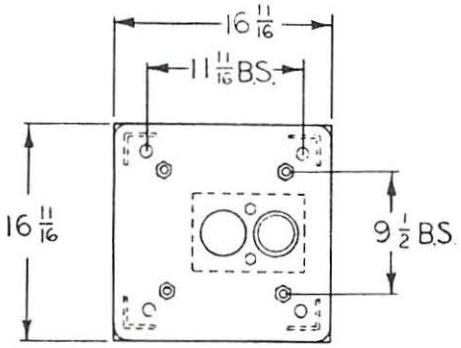
SF-X6Y	2'6"	Frame (cage) and Bolts	$ 380.00
		Form	1,854.00
SF-X8Y	4'6"	Frame (cage) and Bolts	$ 408.00
		Form	$1,854.00

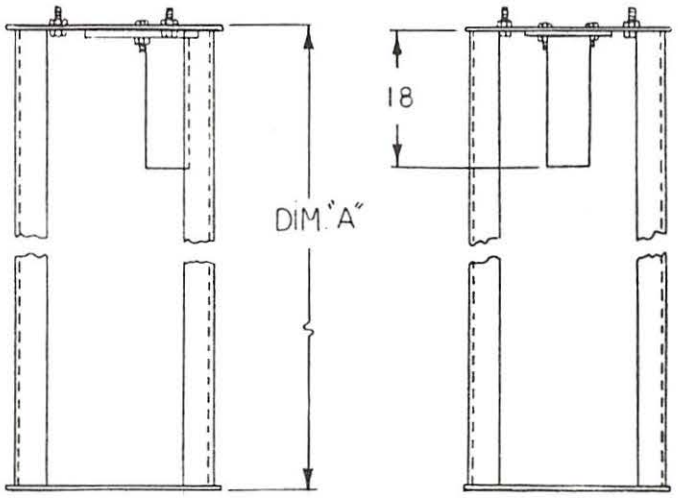
All forms are plastic coated ¾" exterior plywood, reinforced with 3" × 3" × ¼" angle iron with quick clamps for easy dismanteling.

Bolt spacing and bolt sizes are manufactured to buyer's individual specifications at no extra cost.

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985



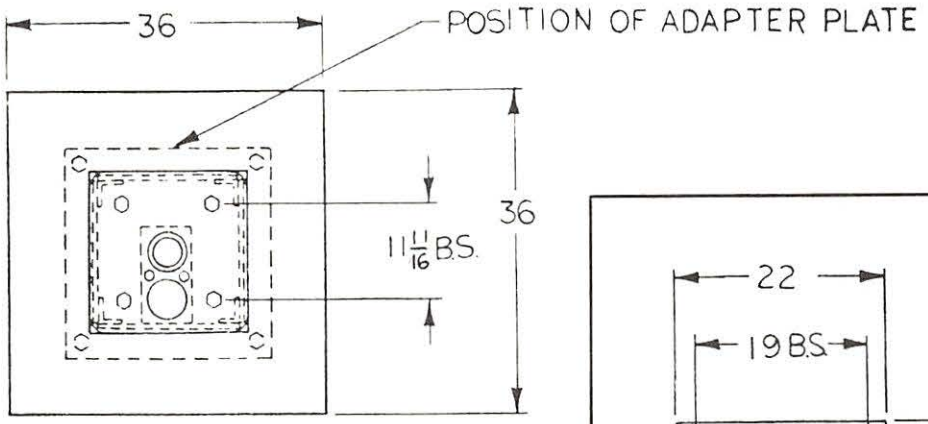


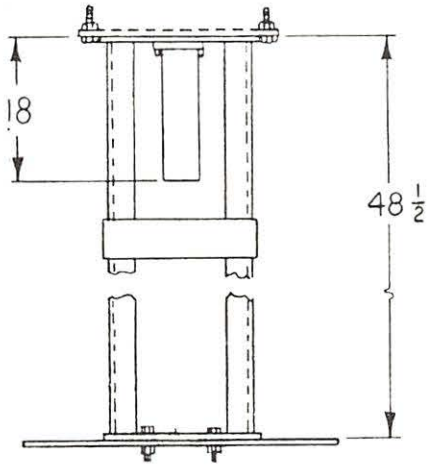
SF-130-X, SF-131-X, & SF-132-X
FLASHING LIGHT SIGNAL FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

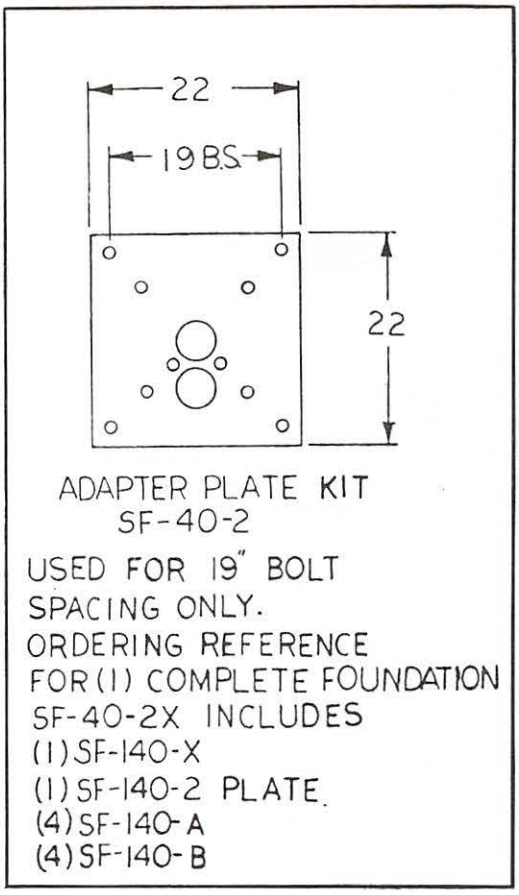
Part No.	Qty.	Description	Part No.	Qty.	Description
SF-130-X		Dim. "A" = 36½	SF-101-A	4	Hex bolt
SF-131-X		Dim. "A" = 48½	SF-101-B	4	Hex nut
SF-132-X		Dim. "A" = 60½	SF-130-A	2	Hex bolt
SF-130-4	1	Cable pipe weldment	SF-130-B	2	Hex nut

NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985



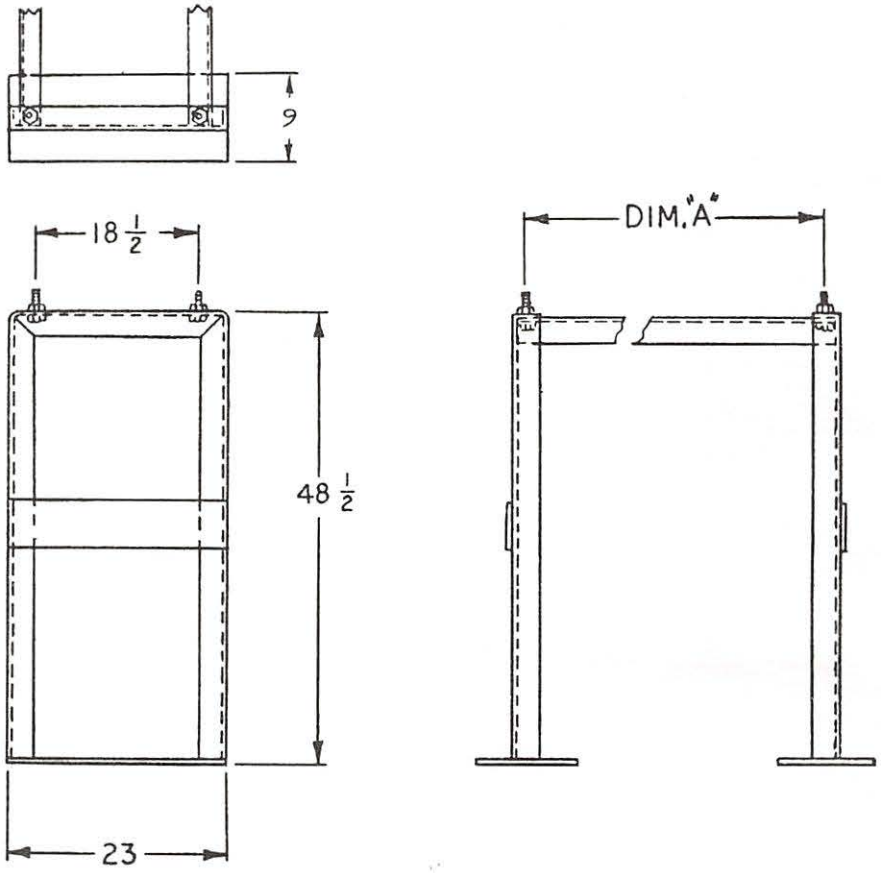




SF-140-X & SF-140-2X
AUTOMATIC CROSSING GATE FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Description
SF-140-X		Complete foundation 11-11/16" B.S.
SF-140-2X		Complete foundation 19" B.S.
SF-140-2	1	Adapter plate
SF-130-4	1	Cable pipe weldment
SF-130-A	2	Hex bolt
SF-130-B	2	Hex nut
SF-140-A	8	Hex bolt
SF-140-B	8	Hex nut

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985



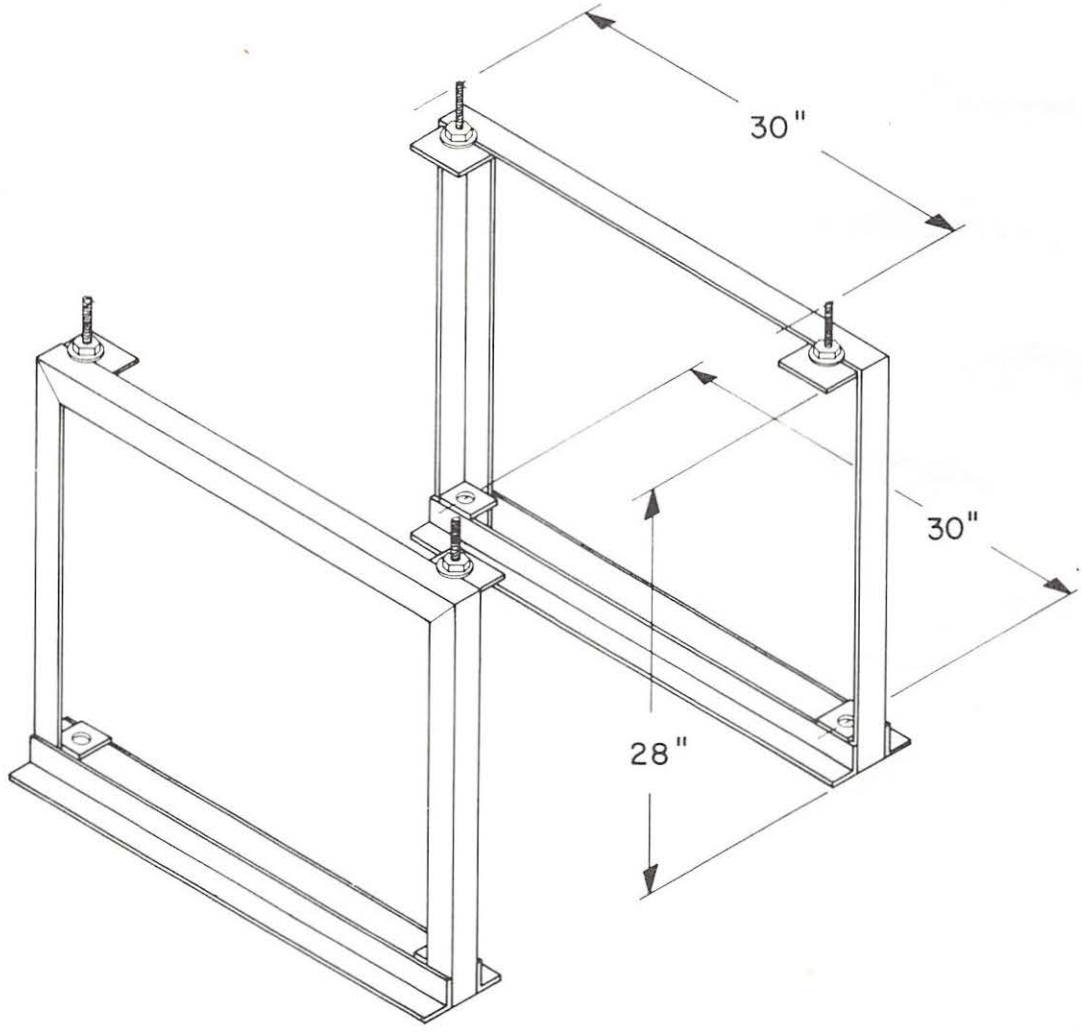
SF-110-X, SF-111-X, & SF-112-X
INSTRUMENT CASE FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Description
SF-110-X		Dim. "A" = 39½
SF-111-X		Dim. "A" = 80¼
SF-112-X		Dim. "A" = 112¼
SF-101-1	2	Inst. case pier
SF-110-1	2	Spacer (39½)
SF-111-1	2	Spacer (80¼)
SF-112-1	2	Spacer (112¼)
SF-101-A	4	Hex bolt
SF-101-B	4	Hex nut
SF-101-C	4	Flat washer

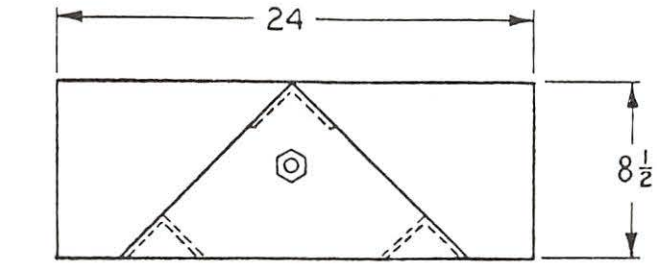
NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

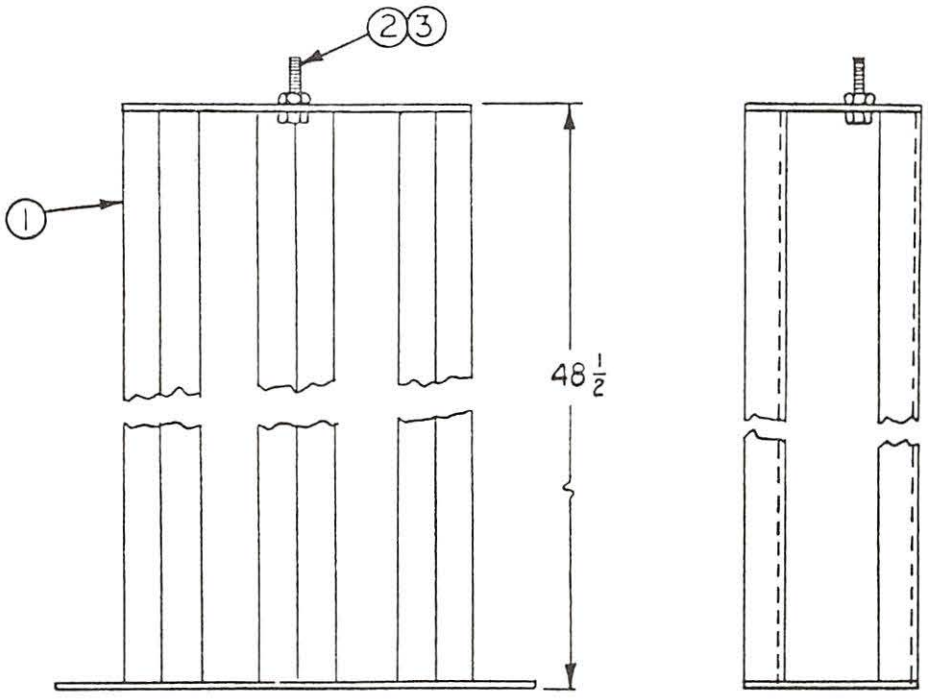
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

STEEL GALVANIZED **SFTH-28-30** TELEPHONE HOUSE FOUNDATION



Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985





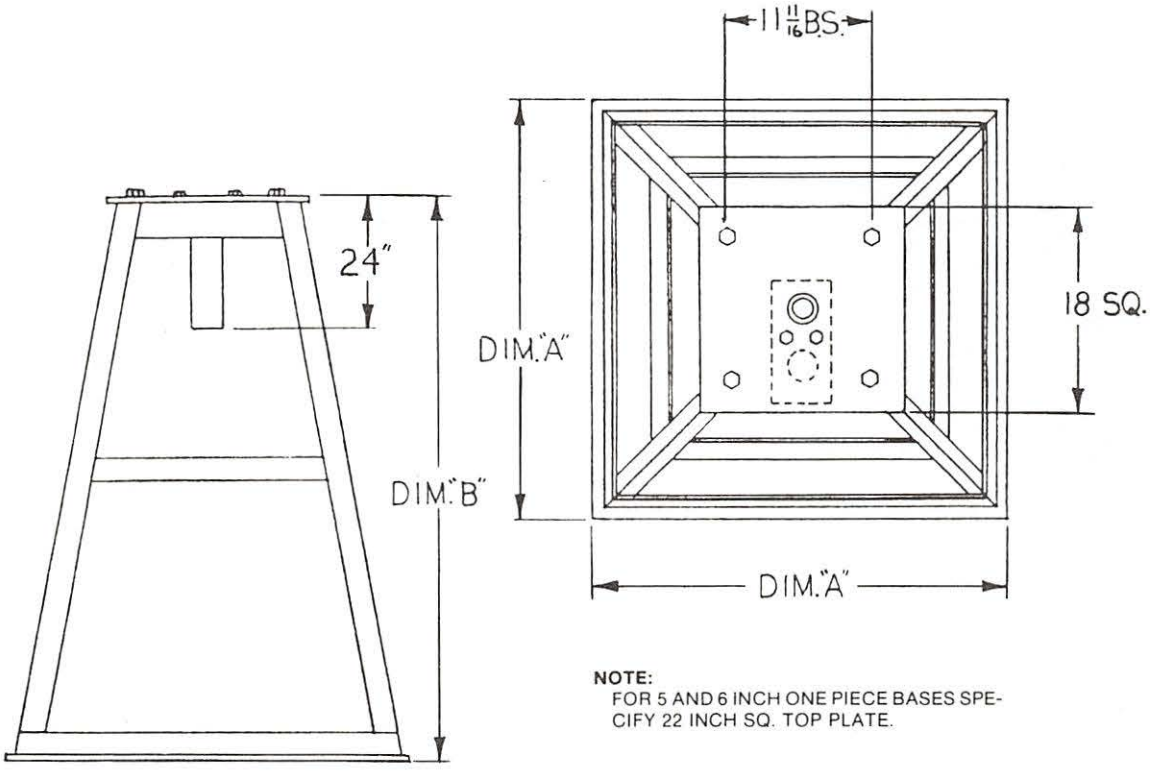
SF-126-X

INSTRUMENT HOUSE FOUNDATION

HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Item	Part No.	Qty.	Description
1	SF-126-1	1	Inst. house foundation
2	SF-101-A	1	Hex bolt
3	SF-101-B	1	Hex nut

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985



NOTE:
FOR 5 AND 6 INCH ONE PIECE BASES SPECIFY 22 INCH SQ. TOP PLATE.

SIGNAL FOUNDATIONS

HOT DIPPED GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Dim. "A"	Dim. "B"	Description
SF-150-X		48	60	3 unit signal or cantilever signal
SF-160-X		32	72	1 & 2 unit signals
SF-170-X		32	60	
SF-180-X		32	48	
SF-190-X		32	42	
SF-130-4	1	—	—	Cable pipe weldment
SF-130-A	2	—	—	Hex bolt
SF-130-B	2	—	—	Hex nut
SF-150-A	4	—	—	Hex bolt
SF-150-B	4	—	—	Hex nut

NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

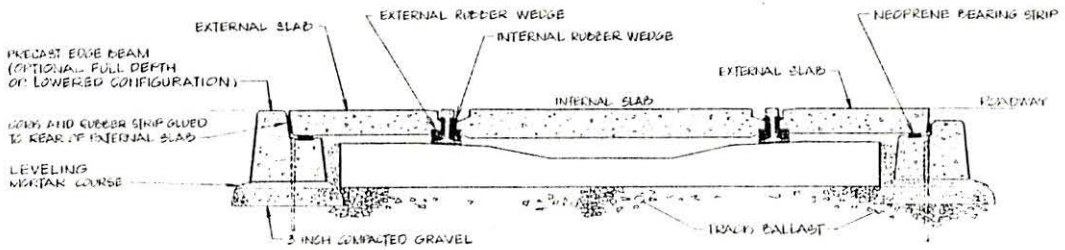
Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

PRICE LIST
STEEL FOUNDATIONS

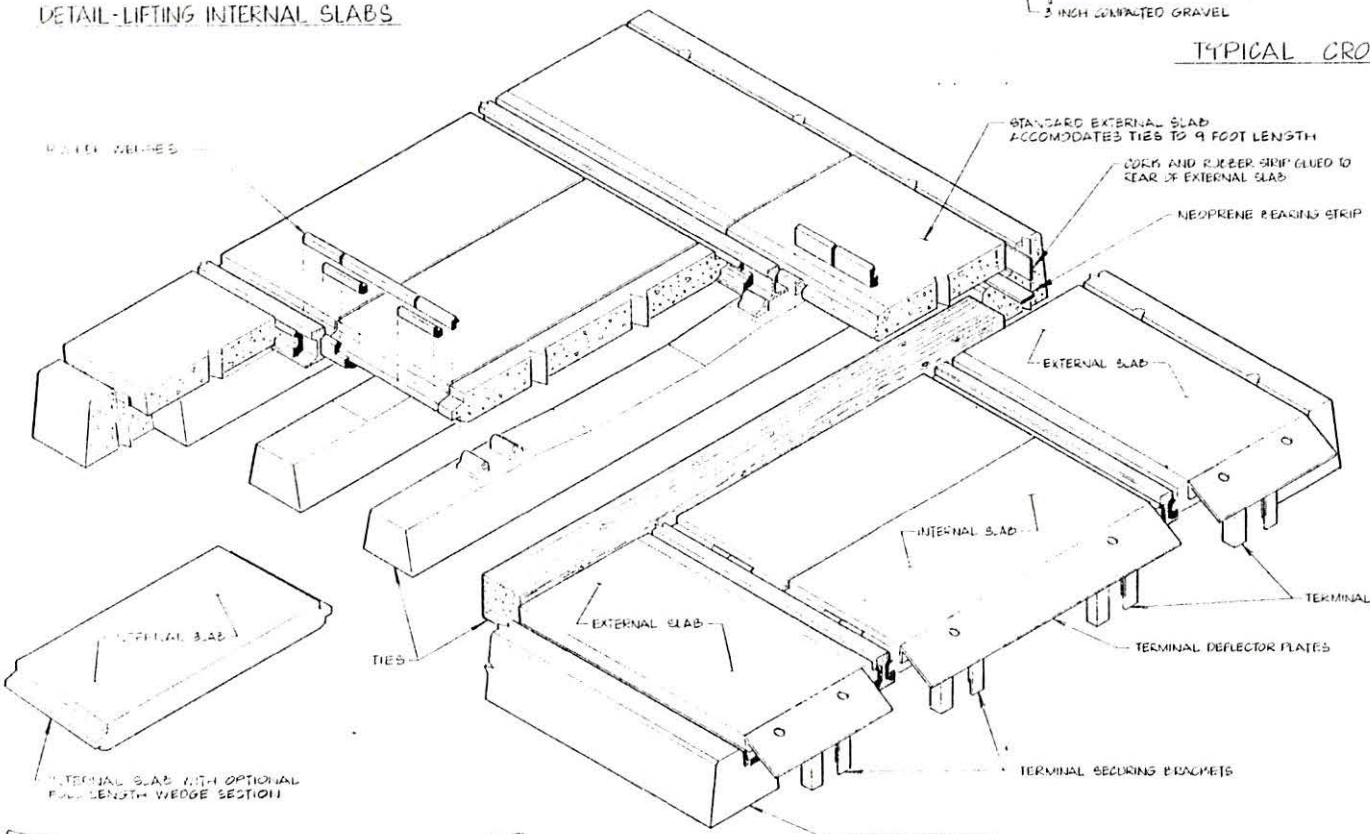
(Prices Effective January 1, 1978)

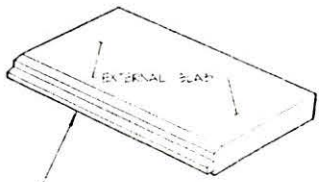
Prices for steel foundations are given upon request.

DETAIL-LIFTING INTERNAL SLABS



TYPICAL CROSS SECTION


STANDARD EXTERNAL SLAB ACCOMODATES TIES TO 9 FOOT LENGTH
CORK AND RUBBER STRIP GLUED TO REAR OF EXTERNAL SLAB
NEOPRENE BEARING STRIP
EXTERNAL SLAB
INTERNAL SLAB
EXTERNAL SLAB
TERMINAL SECURING BRACKETS
TERMINAL DEFLECTOR PLATES
TIES
INTERNAL SLAB WITH OPTIONAL FULL LENGTH WEDGE SECTION
TERMINAL SECURING BRACKETS
PRECAST EDGE BEAM (OPTIONAL FULL DEPTH OR LOWERED CONFIGURATION)



DIMENSIONS OF PRECAST COMPONENTS

INTERNAL SLABS:
24" LONG, 5" DEEP,
GUAGE WIDTH TO SUITE REQUIREMENTS.

EXTERNAL SLABS:
48" LONG, 4½" DEEP
AND 24" WIDE.

PRECAST EDGE BEAM:
VARYING LENGTHS, 15" DEEP,
14" WIDE.

DETAIL-LIFTING EXTERNAL SLABS

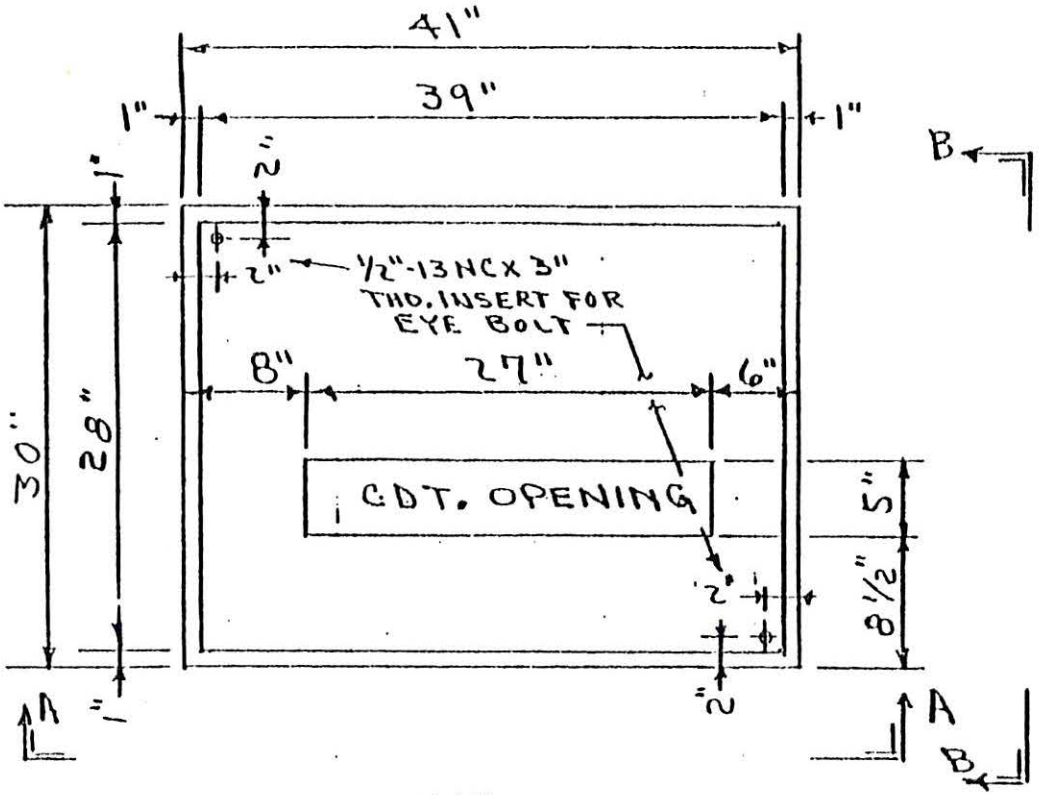
PATENT PENDING

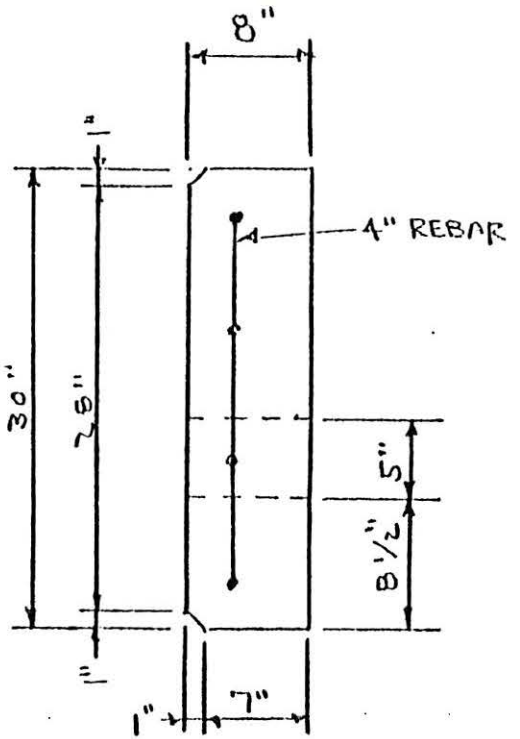
CUSHION – RIDE® GRADE CROSSING

SECTIONAL FOUNDATIONS INC.

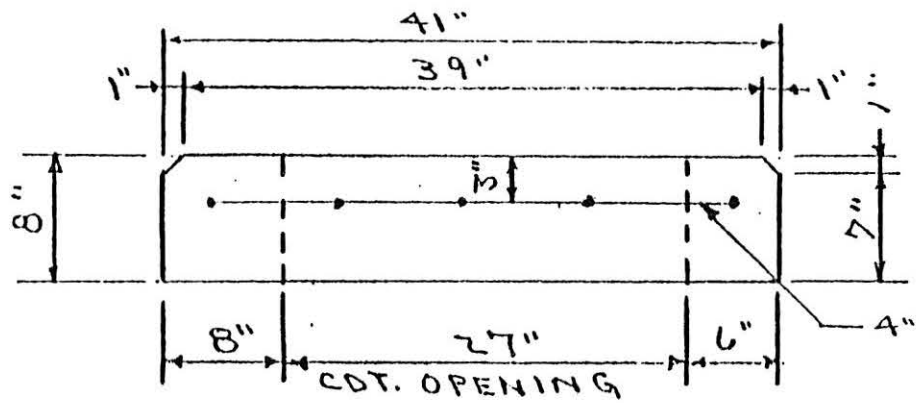
Penn D.O.T. Certified Plant

P.O. BOX 3003 • SCRANTON, PA 18505 • PHONE: (717) 343-8985





SECTION B-B



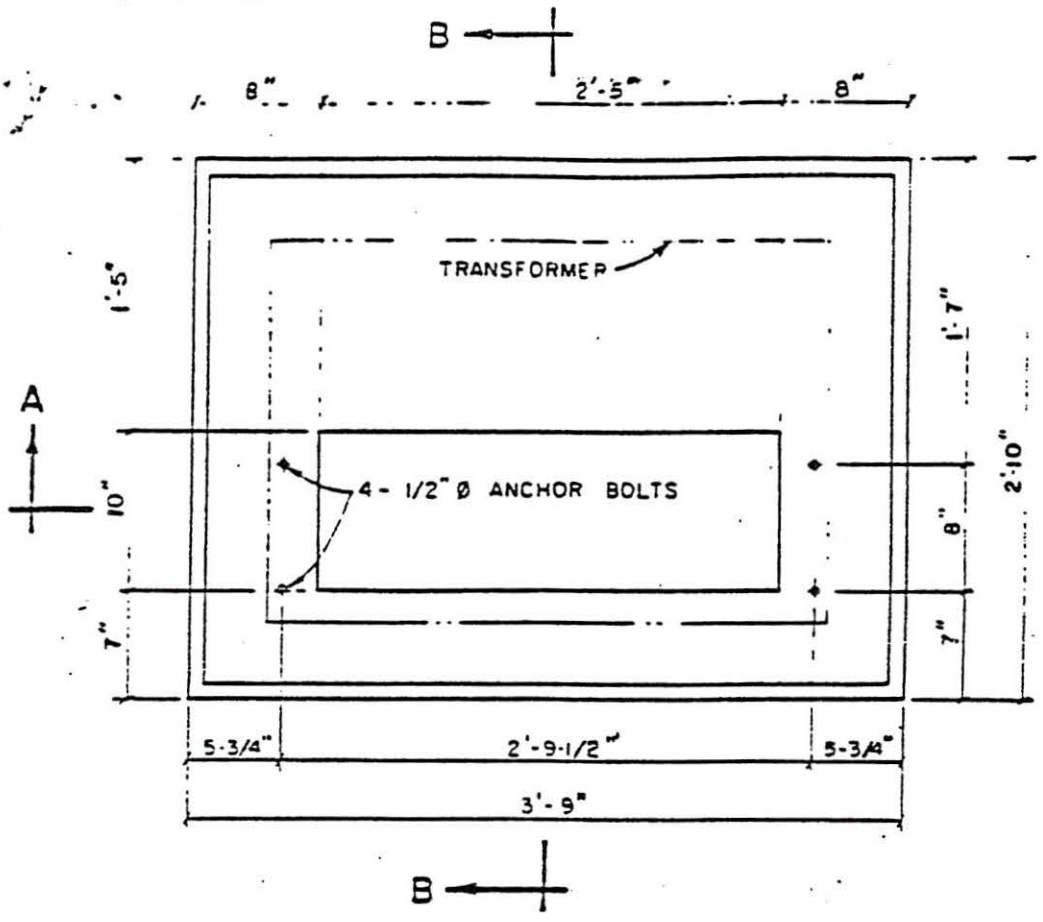
SECTION A-A

CONTRETE PAD FOR 10KVA TRANSFORMER

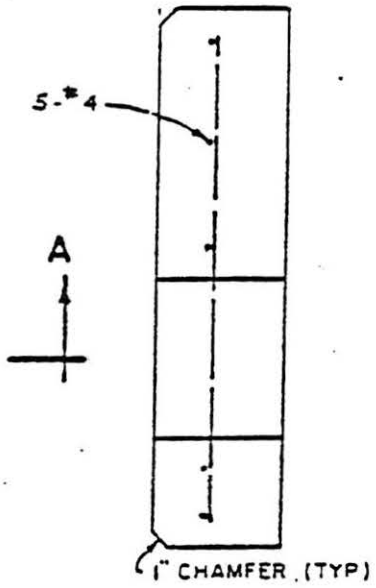
SECTIONAL FOUNDATIONS INC.

Penn D.O.T. Certified Plant

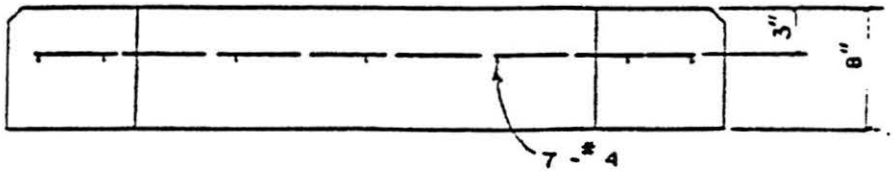
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985



PLAN VIEW



SECTION "B-B"



SECTION "A-A"

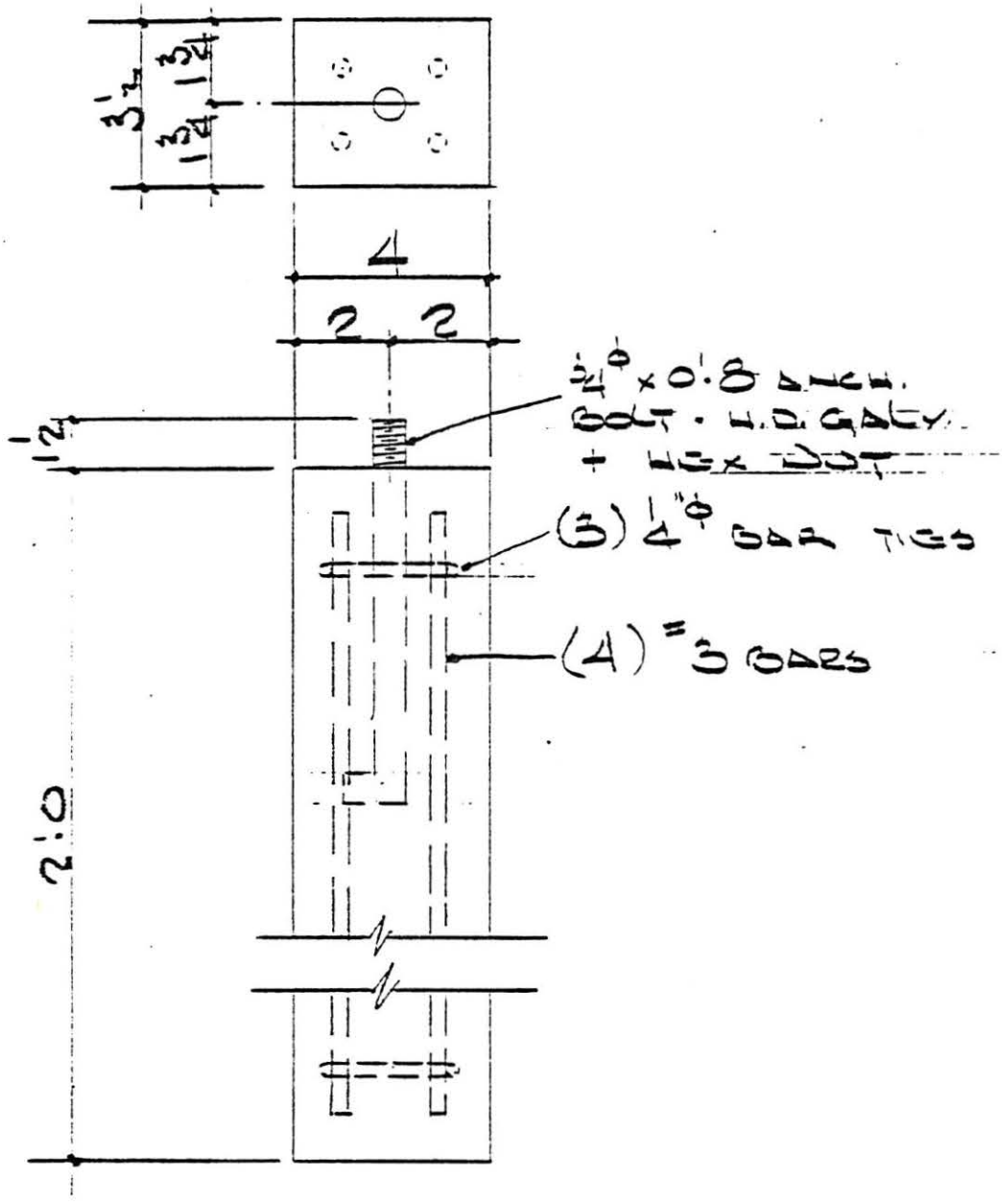
CONCRETE PAD FOR
25KVA TRANSFORMER

SECTIONAL
FOUNDATIONS
INC.

Penn D.O.T.
Certified
Plant

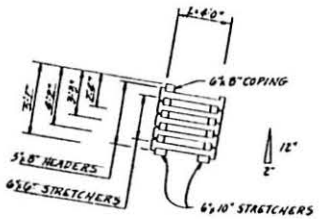
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985

Sectional Foundations, Inc.
P. O. BOX 3003 · SCRANTON, PA 18505 · (717) 343-8985

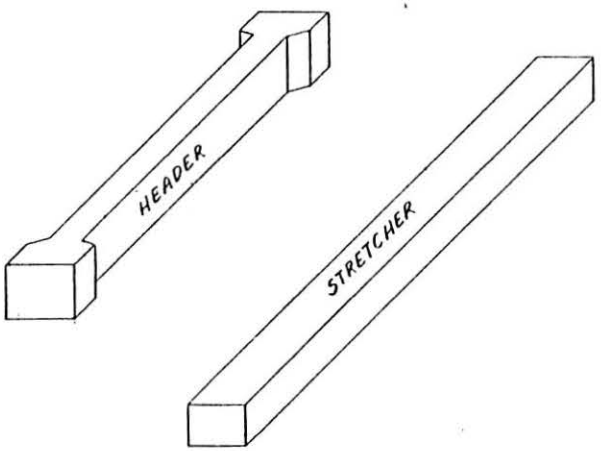


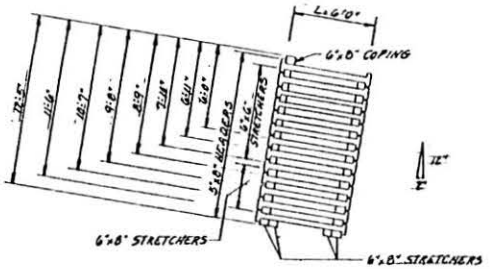
CABLE LOCATION MARKER

JOB:
CONTRACTOR:
DATE: DWG. NO.

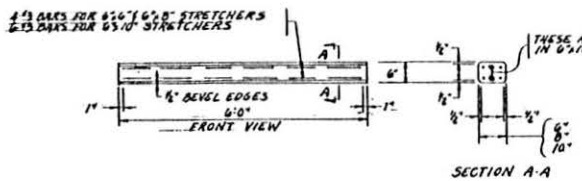


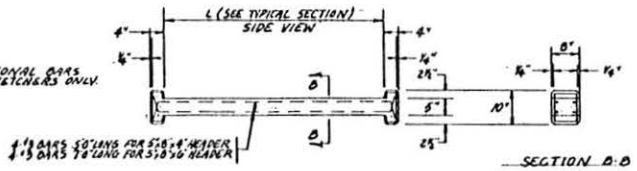
WALL SECTION "A"

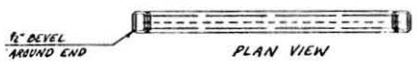




WALL SECTION B-B


4 #3 BARS FOR 6½6" & 6½8" STRETCHERS
6 #3 BARS FOR 6½10" STRETCHERS
THESE ADDITIONAL BARS IN 6½10" STRETCHERS ONLY.
½" BEVEL EDGES
6'0"
FRONT VIEW
SECTION A-A





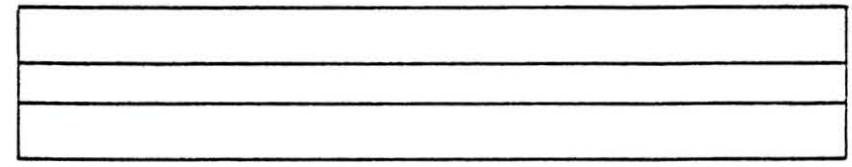
ALL REINFORCING BARS IN CRIBBING MEMBERS ARE TO BE 1" CLEAR FROM SURFACE OF CONCRETE.

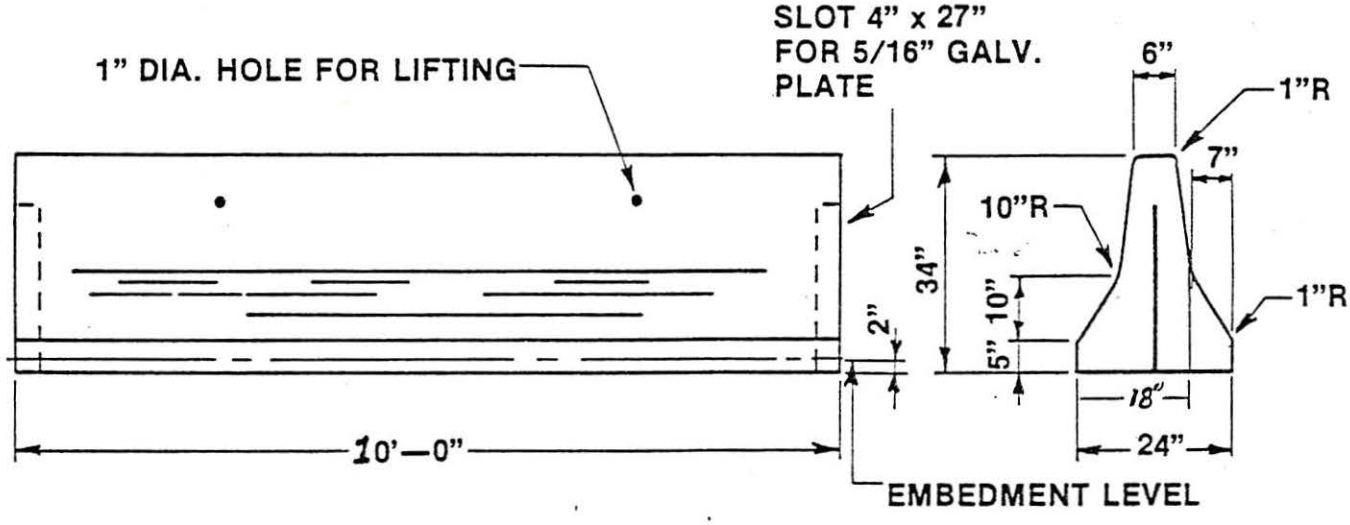
STRETCHER & HEADER DETAILS

SECTIONAL FOUNDATIONS INC.

DWG NO.	SFI-3079
PROJECT	
CONTRACTOR	PANGBORNE (C-1)
DRAWN BY	S.D
DATE	6/30/01

10' -- 34" High Permanent Barrier
W/ Joint Continuity

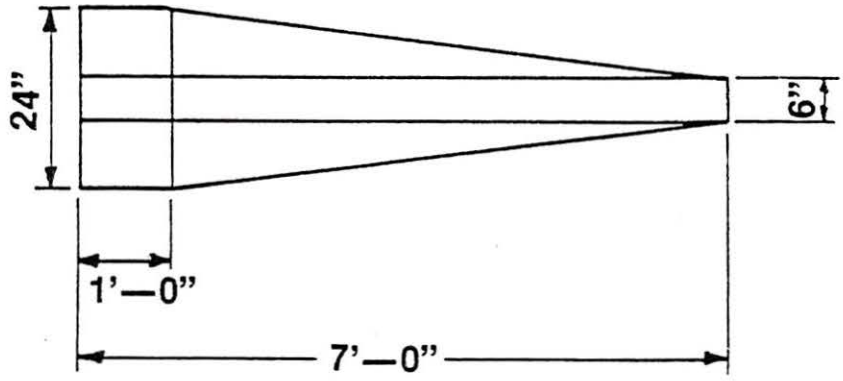


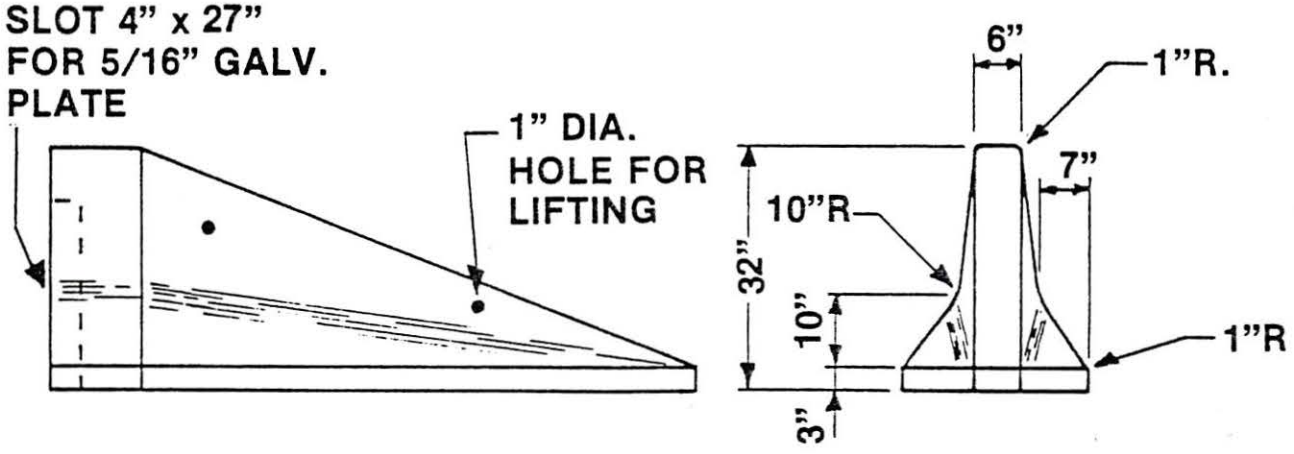


SECTIONAL
FOUNDATIONS
INC.

Penn D.O.T.
Certified
Plant

P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985





CONCRETE MEDIAN BARRIER
END TRANSITON

SECTIONAL
FOUNDATIONS
INC.

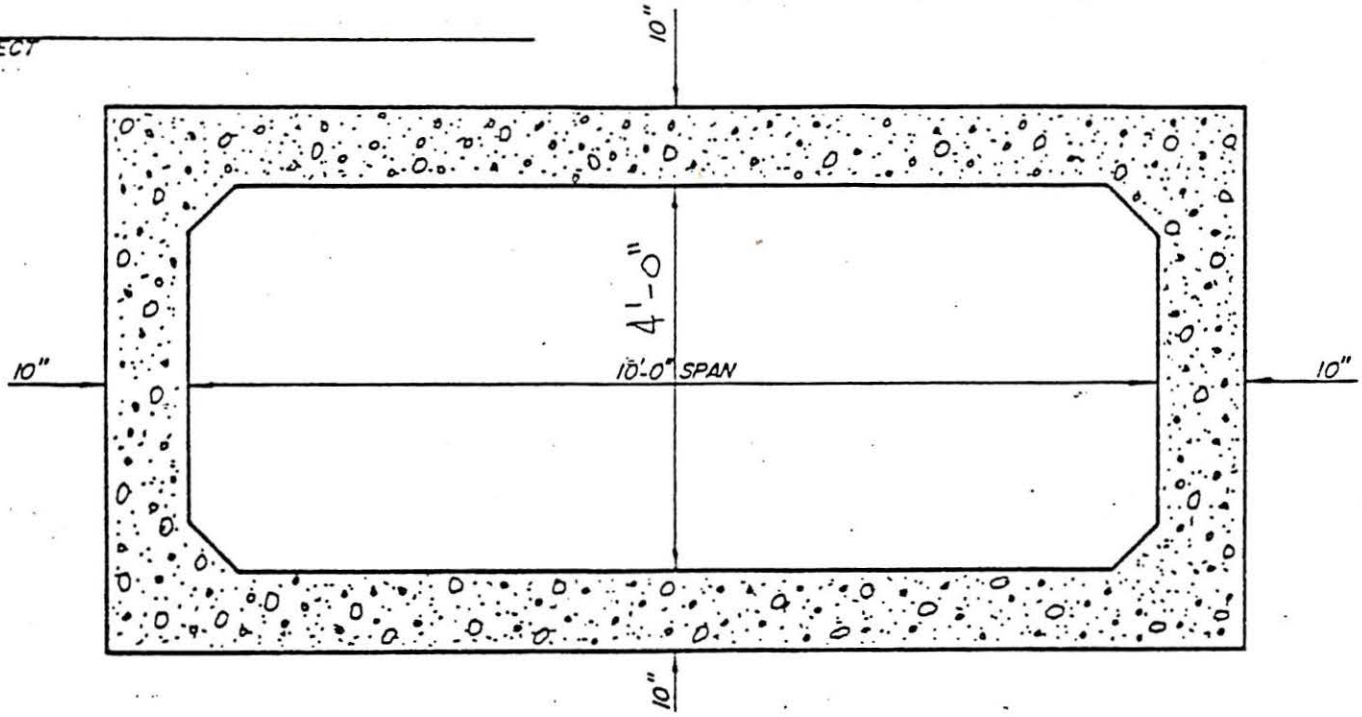
Penn D.O.T.
Certified
Plant

P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985

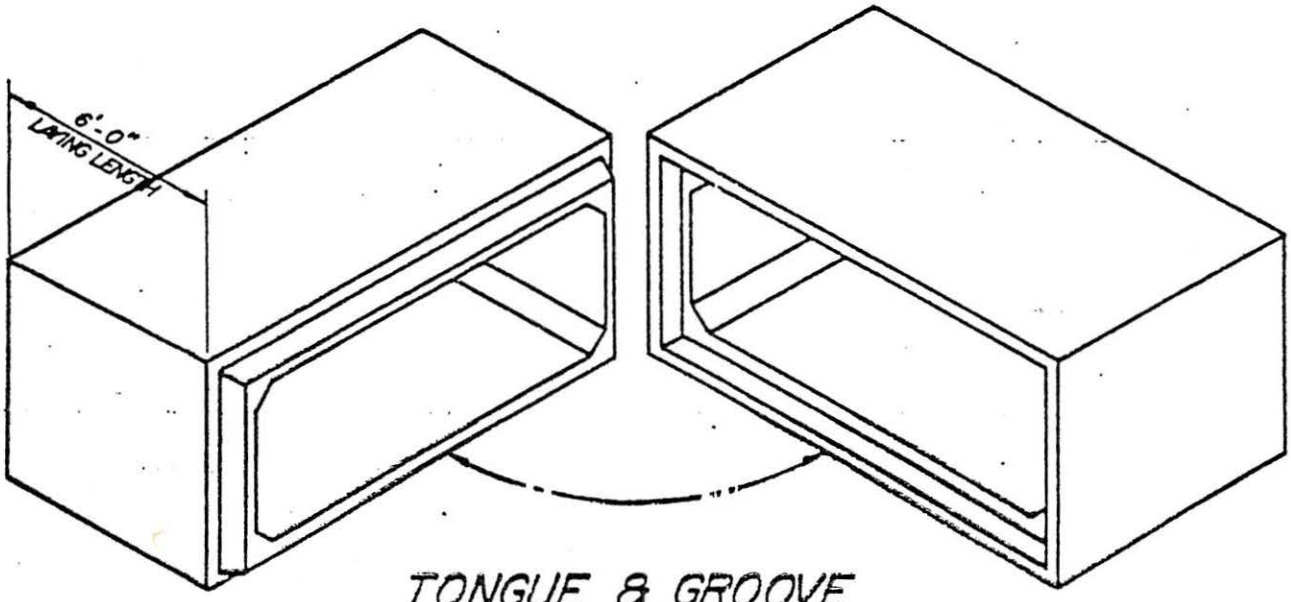
SHOP DRAWING - PRECAST CONCRETE BOX CULVERT (10'x4')

CONTRACTOR

PROJECT



CROSS SECTION



TONGUE & GROOVE
END SECTIONS

APPROVED BY:

ENGINEER: _____

CITY: _____

SPECIFICATIONS: ASTM DESIGN C-789-74
CONCRETE : 564 LBS. PORTLAND CEMENT PER YD. (MIN.)
REINFORCING STEEL : TO ENGINEERS SPECIFICATIONS
APPROX. WT. / LIN. FT. : 4000 LBS.
JOINT : TONGUE & GROOVE MASTIC JOINT
LAYING LENGTH : 6 L.F.

SECTIONAL
FOUNDATIONS
INC.

Penn D.O.T.
Certified
Plant

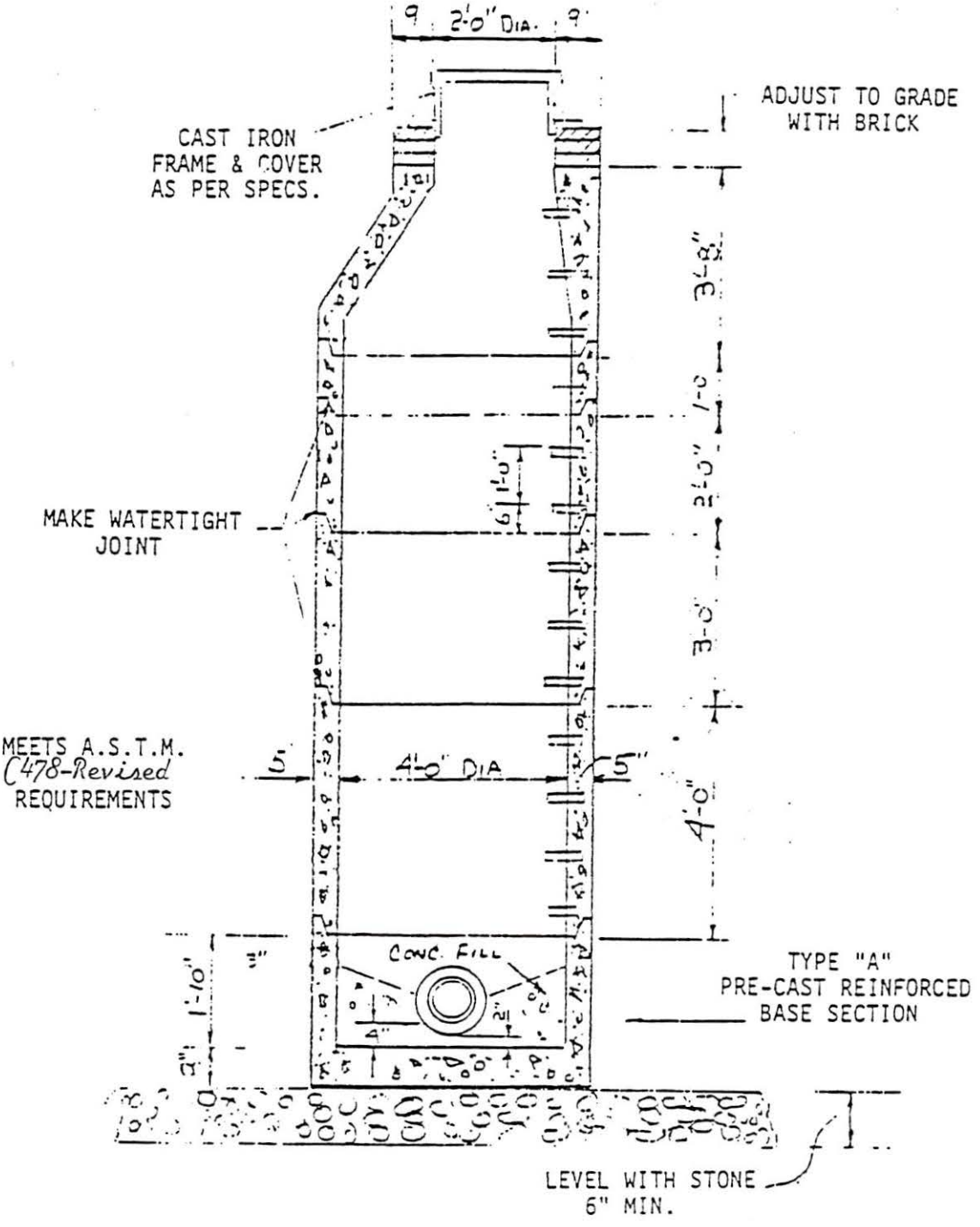
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985

DRAWING NO.
NU-10x4RCB

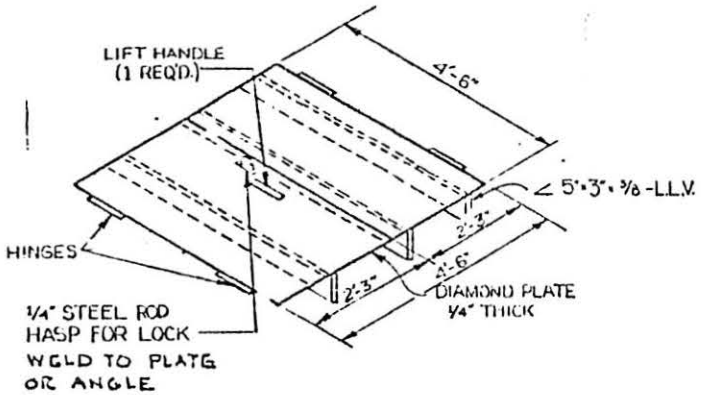
SECTIONAL
FOUNDATIONS
INC.

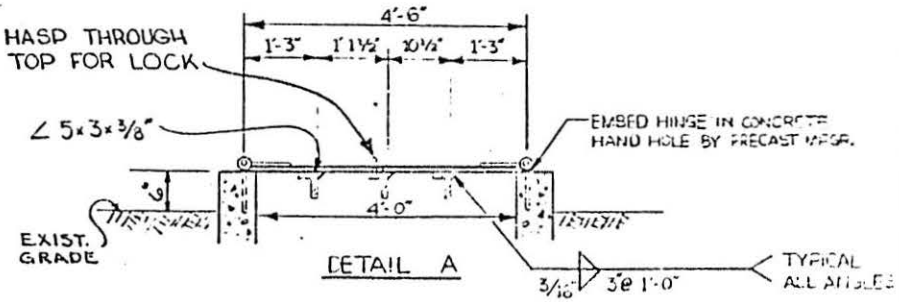
Penn D.O.T.
Certified
Plant

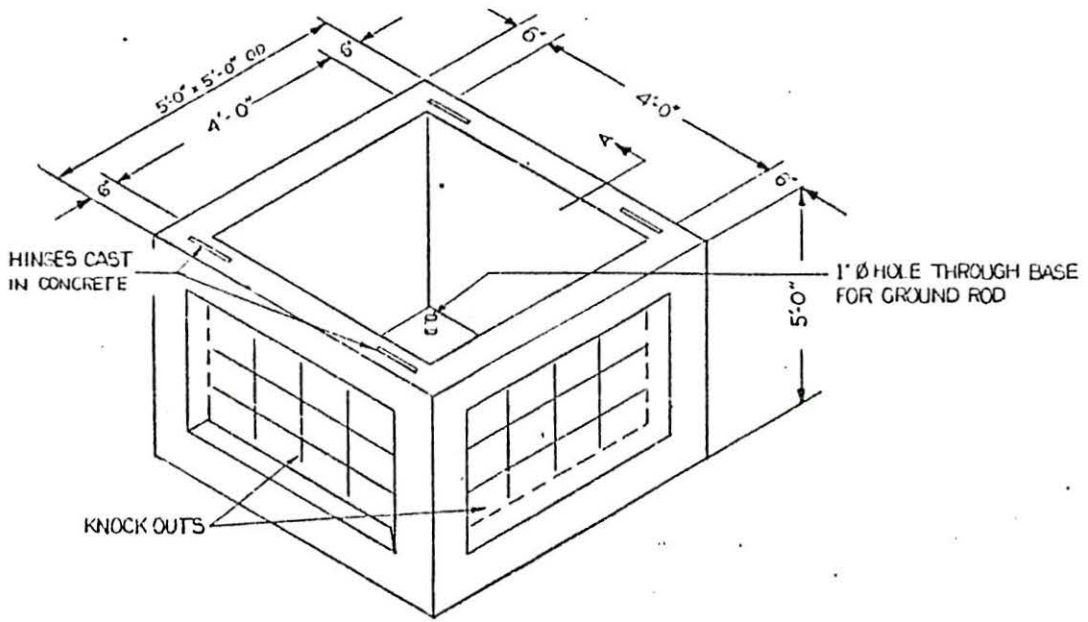
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985



PRE-CAST REINFORCED CONCRETE MANHOLE & BASE SECTIONS

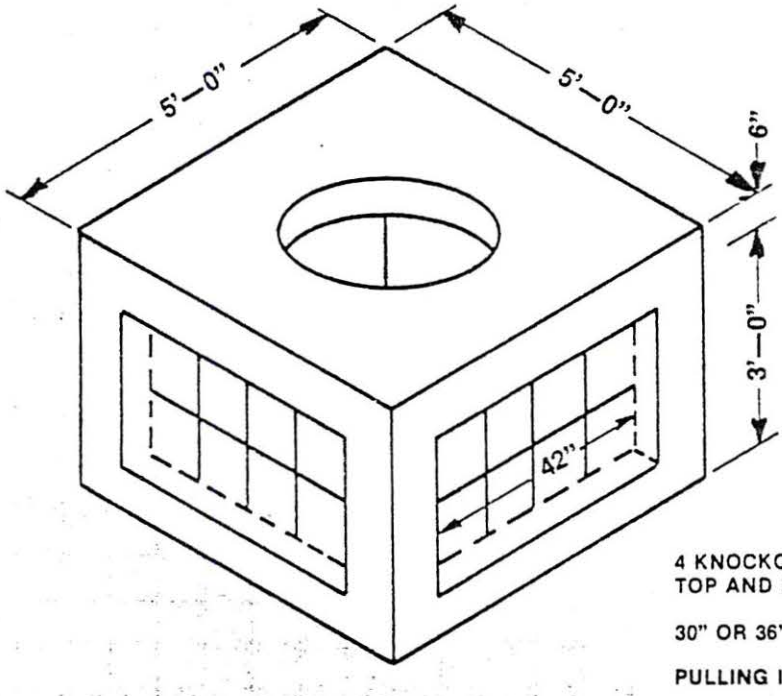






Precast Concrete Pull Box

Sectional Foundations, Inc.
P.O. Box 3003
Scranton, Pa. 18505



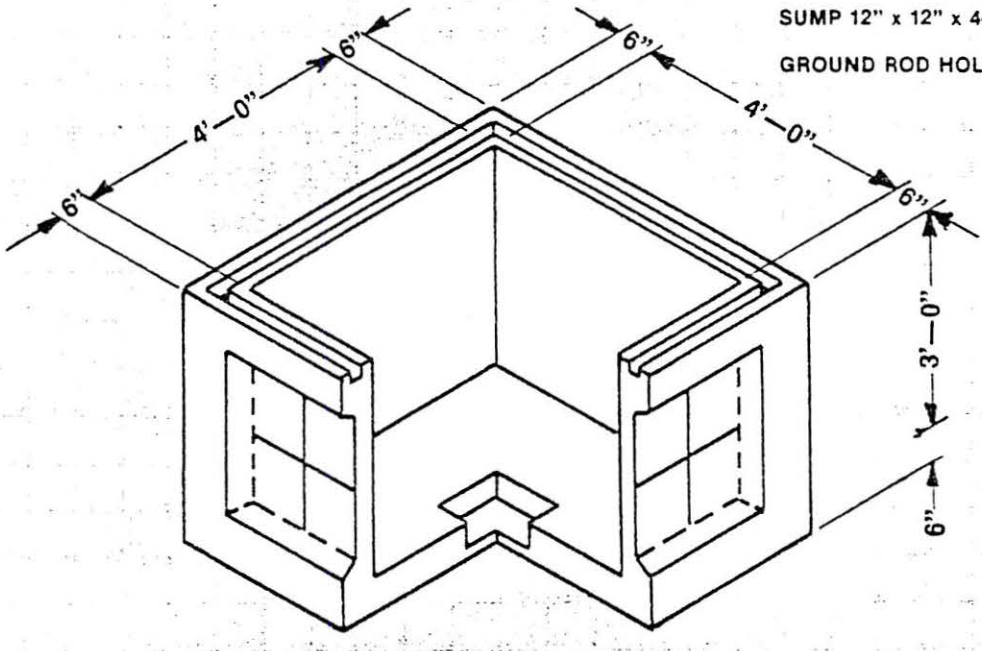
4 KNOCKOUTS 24" x 42"
TOP AND BOTTOM SECTIONS

30" OR 36" DIA. OPTIONAL OPENINGS

PULLING IRONS IN FLOOR

SUMP 12" x 12" x 4-1/2" DEEP

GROUND ROD HOLE

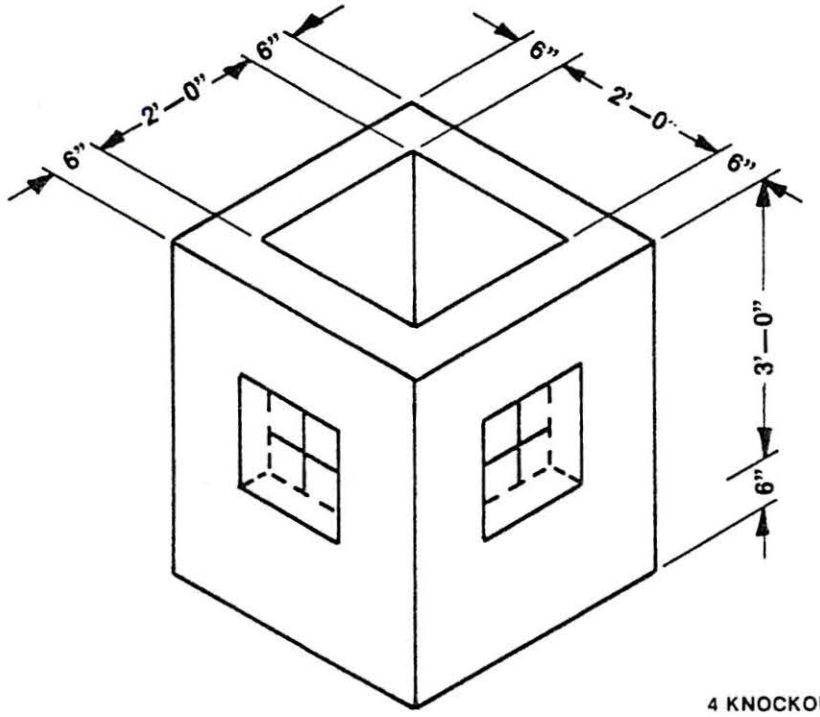


SECTIONAL FOUNDATIONS INC.

Penn D.O.T.
Certified
Plant

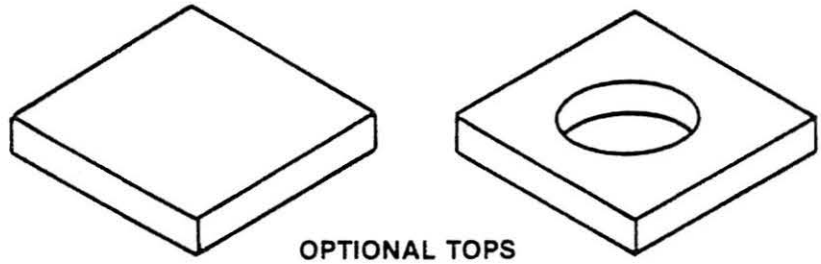
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985

SNLEJ BOX
(2' x 2')



4 KNOCKOUTS 12" x 12"

SUMP 12" x 12" x 4-1/2"

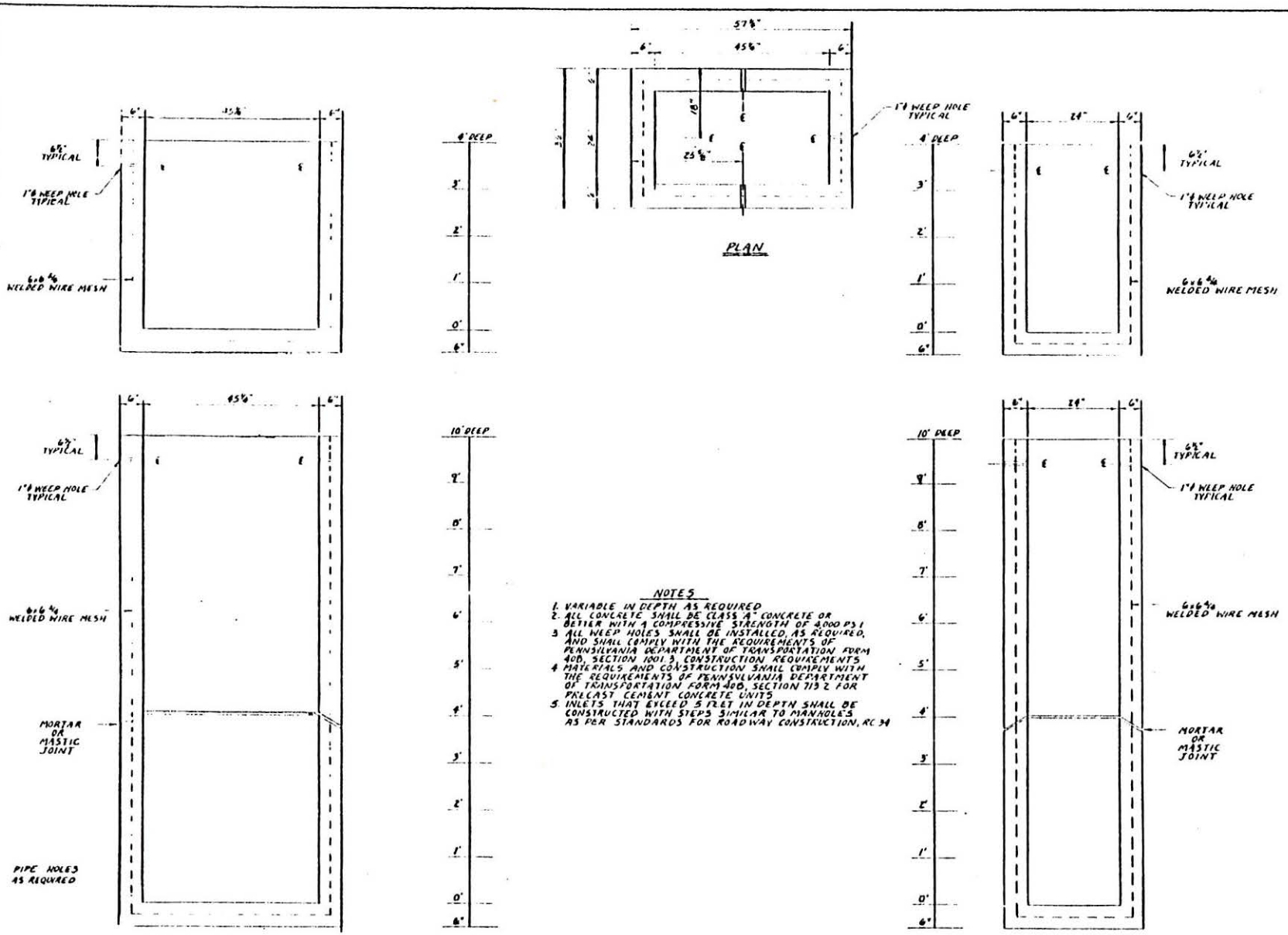


OPTIONAL TOPS

SECTIONAL FOUNDATIONS INC.

Penn D.O.T. Certified Plant

P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985

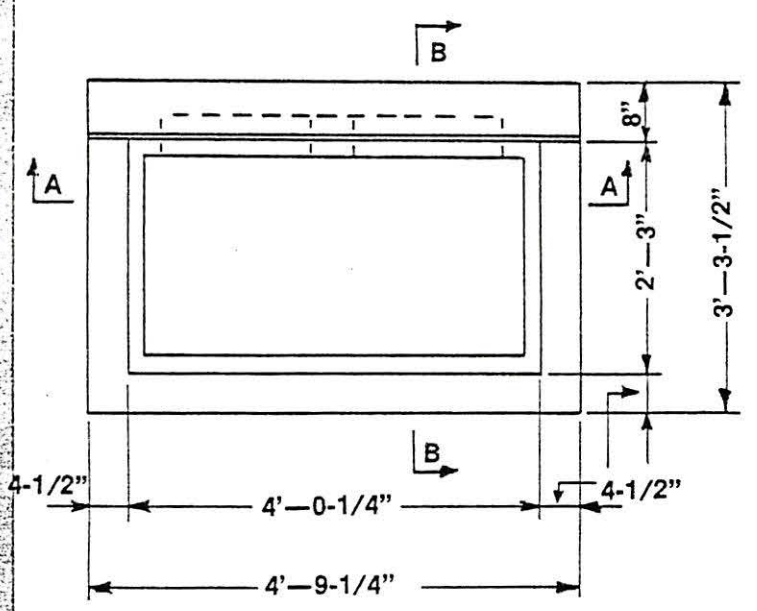


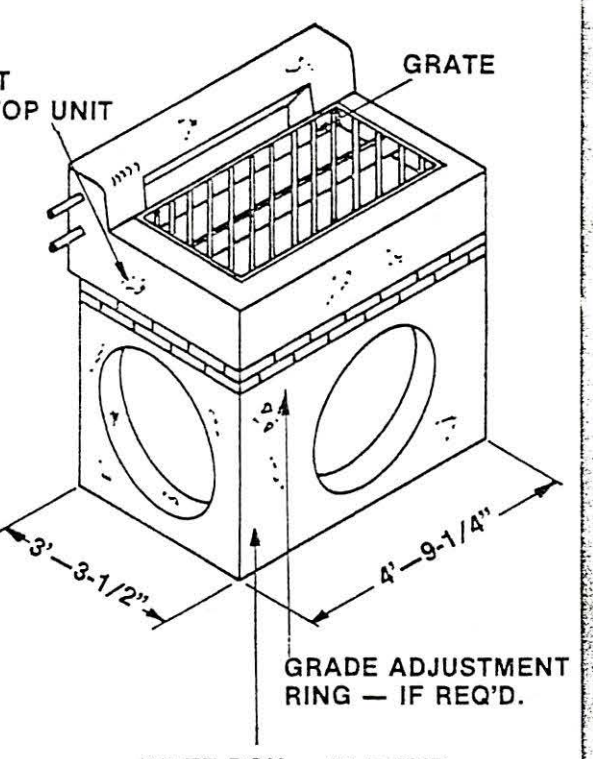
NOTES

1. VARIABLE IN DEPTH AS REQUIRED
2. ALL CONCRETE SHALL BE CLASS A CONCRETE OR BETTER WITH A COMPRESSIVE STRENGTH OF 4,000 P.S.I
3. ALL WEEP HOLES SHALL BE INSTALLED AS REQUIRED, AND SHALL COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408, SECTION 1001.3 CONSTRUCTION REQUIREMENTS
4. MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408, SECTION 713.2 FOR PRECAST CEMENT CONCRETE UNITS
5. INLETS THAT EXCEED 5 FEET IN DEPTH SHALL BE CONSTRUCTED WITH STEPS SIMILAR TO MANHOLES AS PER STANDARDS FOR ROADWAY CONSTRUCTION, RC 34

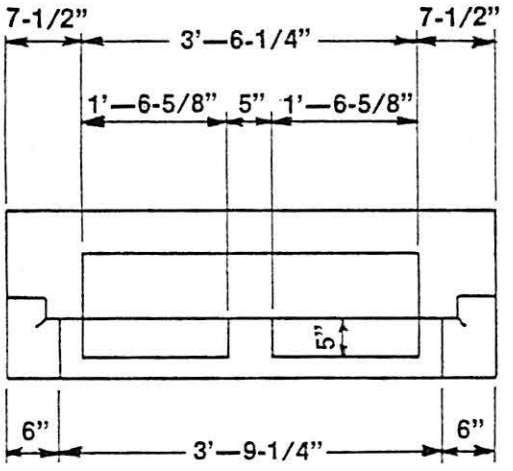
SECTIONAL FOUNDATIONS INC.

DWG NO. PDT-26-1A
PROJECT INLET BOXES PRE CAST
CONTRACTOR
BY S.B. 6/19/81



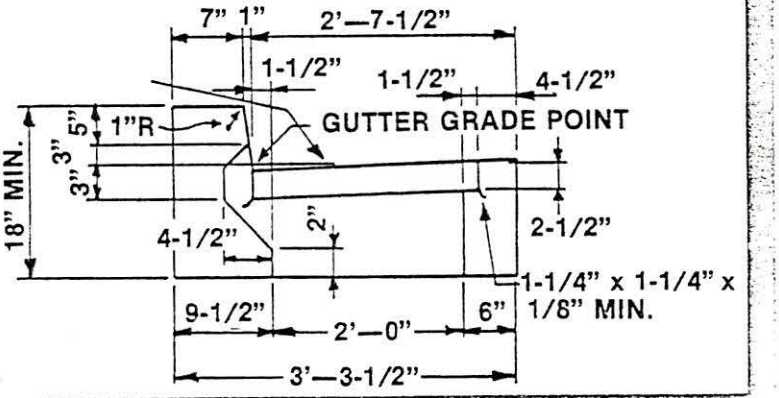


SECTION "A—A"



SECTION "B—B"

NORMAL GUTTER SLOPE 0.02 FT./FT.

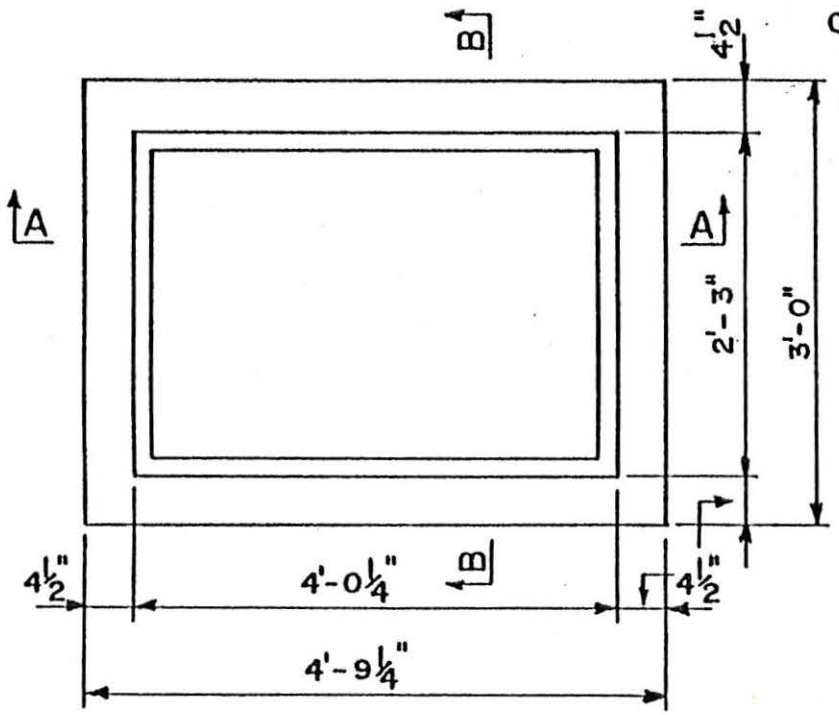


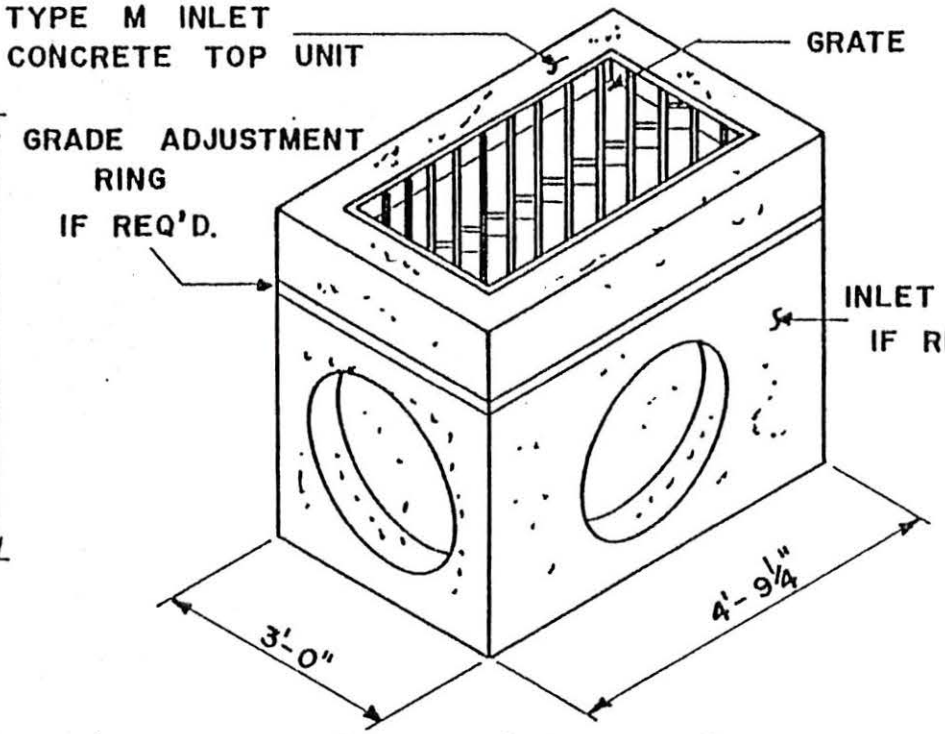
TYPE C INLET

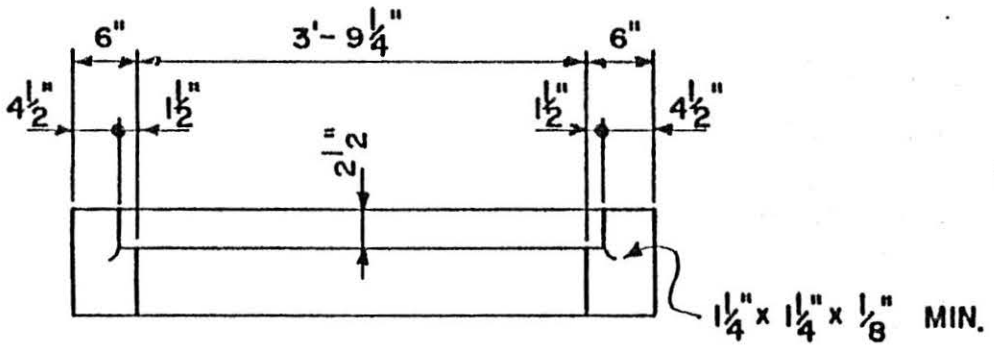
SECTIONAL FOUNDATIONS INC.

Penn D.O.T. Certified Plant

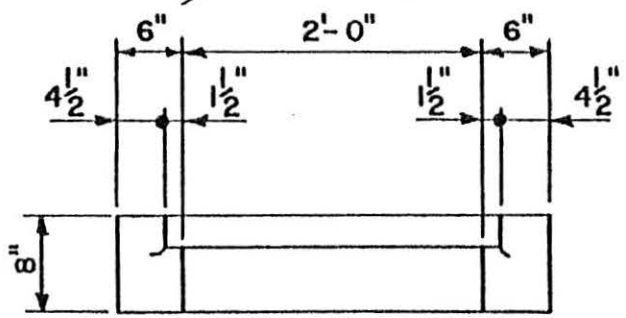
P.O. BOX 3003 • SCRANTON, PA. 18505 • PHONE: (717) 343-8985







SECTION "A-A"



SECTION "B-B"

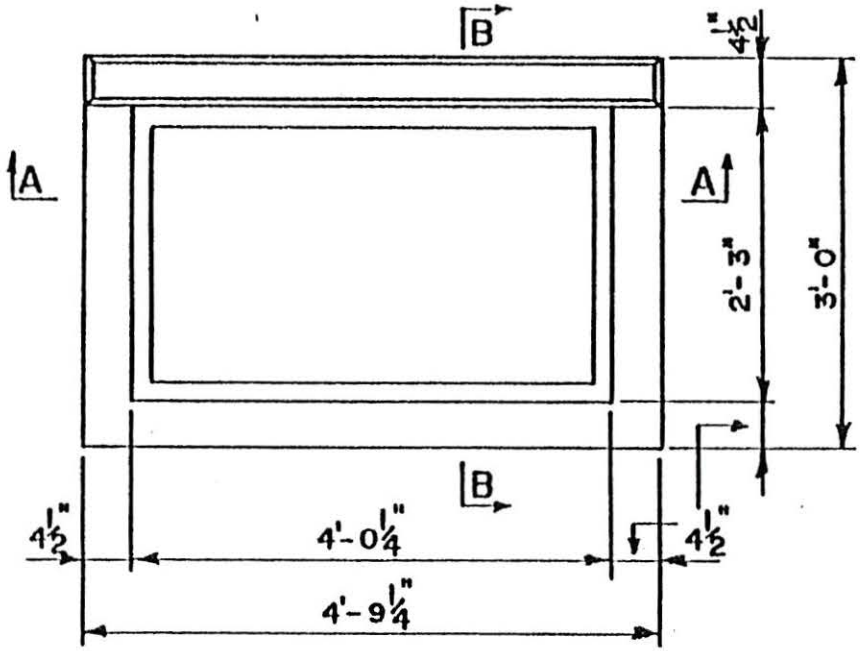
TYPE M INLET

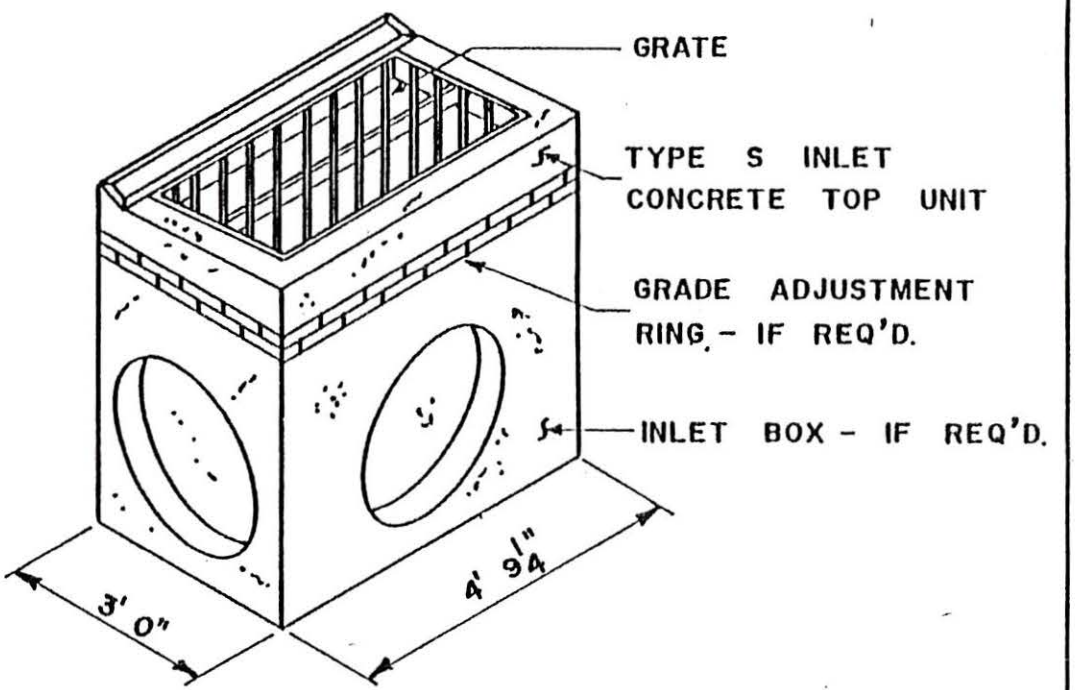
Sectional Foundations, Inc.

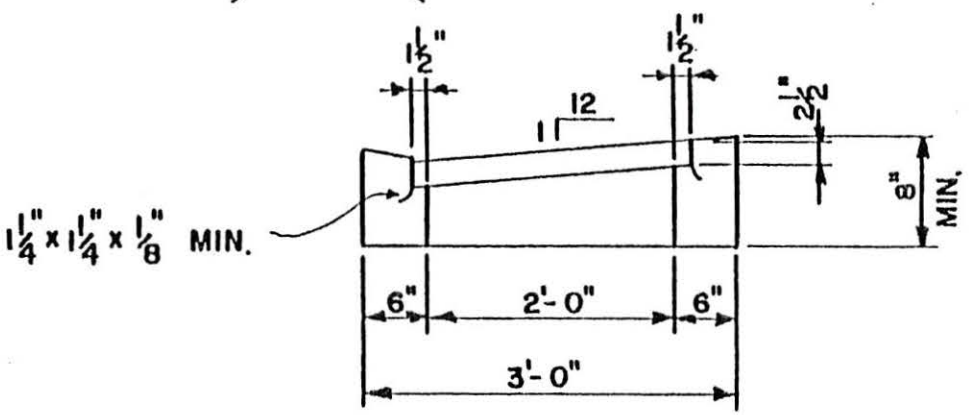
P O BOX [redacted] SCRANTON, PA 18503 · (717) 343-8985

3093

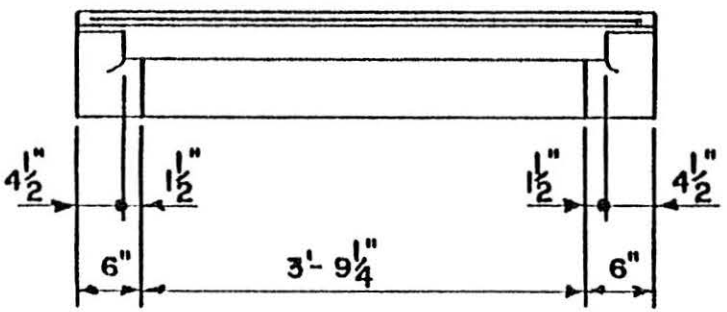
DWN. BY:	DATE:	DWG. NO.
CHK. BY:	DATE:	JOB NO.







SECTION "B-B"



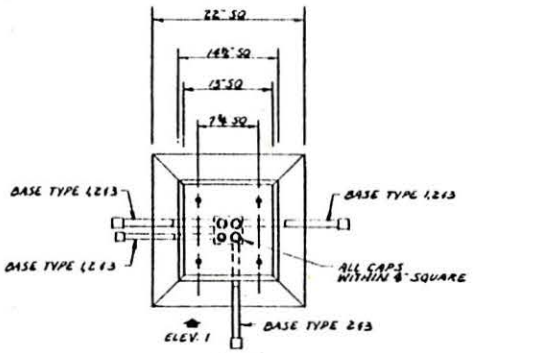
SECTION "A-A"

TYPE S INLET

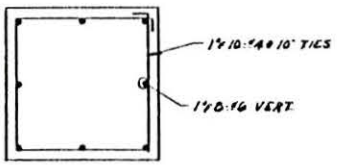
Sectional Foundations, Inc.

P. O. BOX 3003 · SCRANTON, PA 18503 · (717) 343 8985

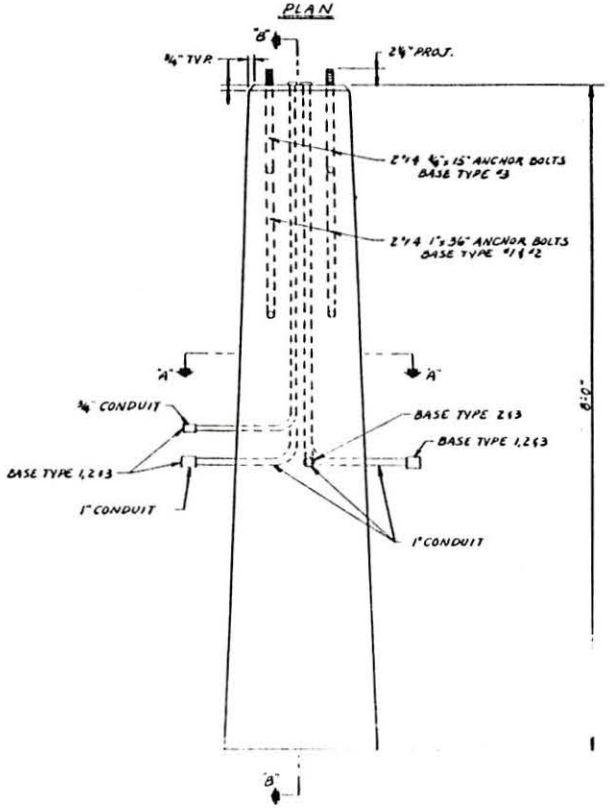
DWN. BY:	DATE:	DWG. NO.
CHK. BY:	DATE:	JOB NO.



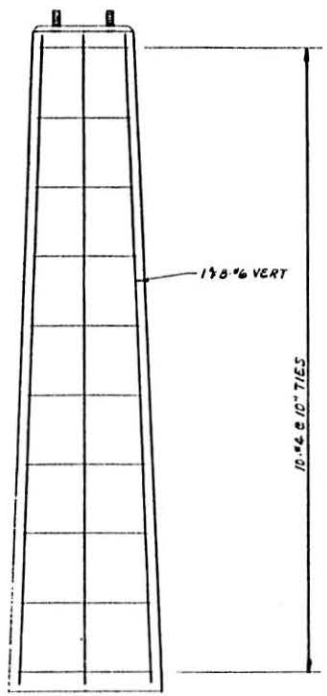
PLAN



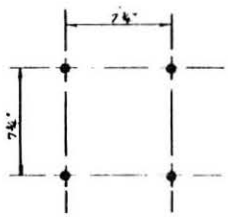
SECTION "A-A"



ELEVATION 1



SECTION "B-B"

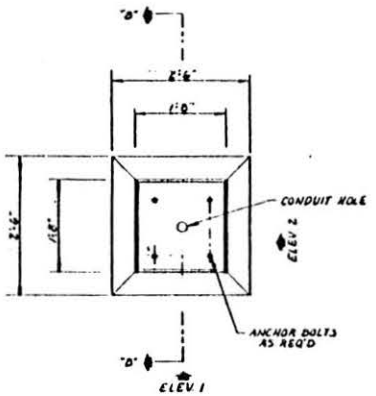


ANCHOR BOLT LAYOUT

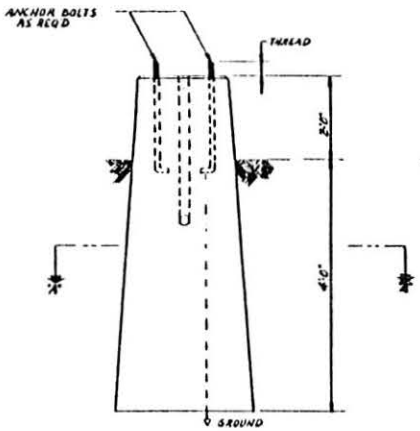
5,000 psi concrete mix

SECTIONAL FOUNDATIONS INC

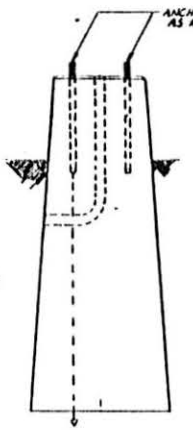
DWG #	LSF-30-20-2
PROJECT	LIGHT STANDARD FOUNDATION
CONTRACTOR	
DRAWN BY	SLD
DATE	6/9/80



PLAN

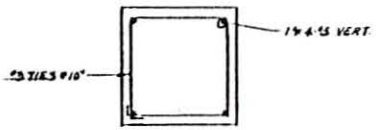


ELEVATION 1

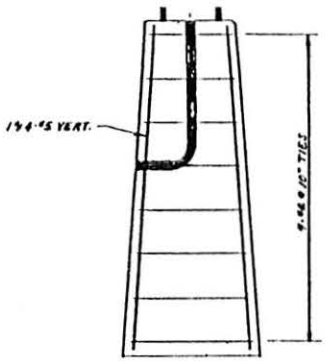


ELEVATION 2

LIGHT STANDARD FDN.

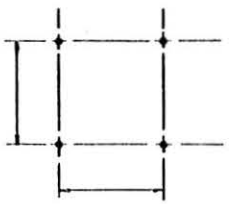


SECTION "A-A"



SECTION "B-B"

NOTE: ALL DIMENSIONS & SPACINGS MAY BE ALTERED TO SUIT REQUIREMENTS FILL IN MISSING DIMENSIONS

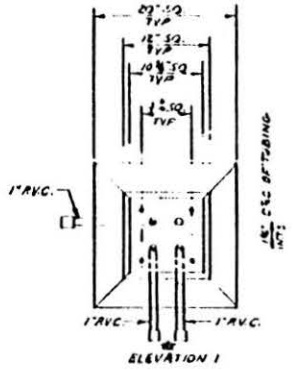


ANCHOR BOLT LAYOUT

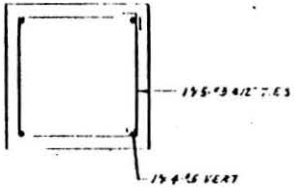
ANCHOR BOLTS	
FOUNDATION	3.56"
TOTAL	

SECTIONAL FOUNDATIONS INC

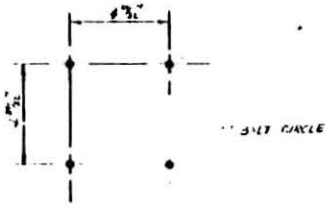
DWG #	LSF-3020-1
PROJECT	LIGHT STANDARD FDN.
CONTRACTOR	
DRAWN BY	SLB
DATE	10/8/79



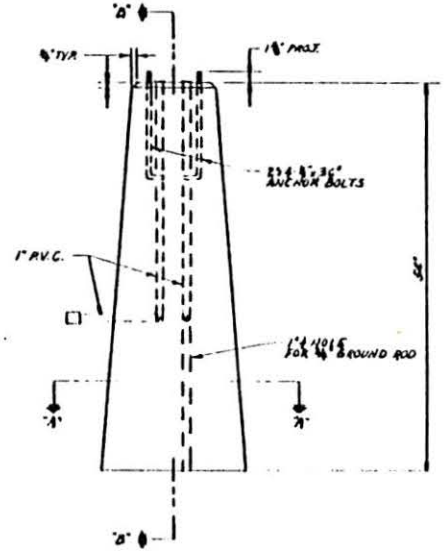
PLAN



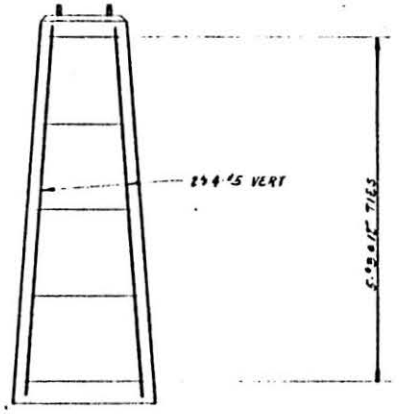
SECTION "A-A"



ANCHOR BOLT LAYOUT



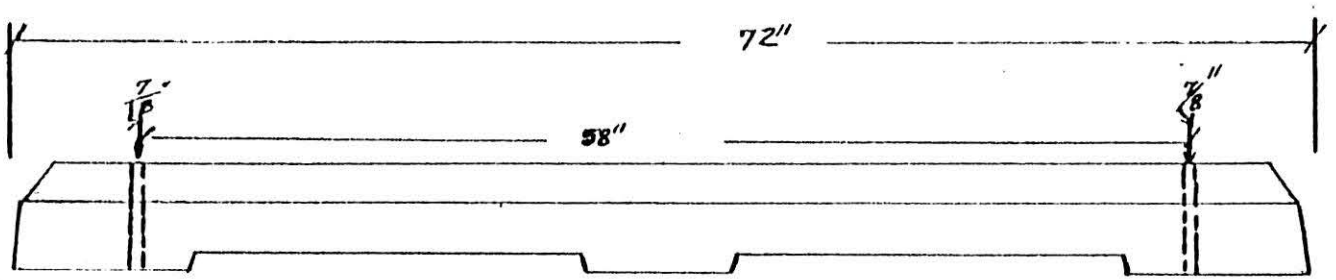
ELEVATION 1



SECTION "B-B"

SECTIONAL FOUNDATIONS INC

DWG #	LSF-36-20-L
PROJECT	LIGHT STANDARD FOUNDATION
CONTRACTOR	
DRAWN BY	SLB
DATE	8/3/90



Can Block

SECTIONAL
FOUNDATIONS
INC.